

WWW.INLANDWATERSINC.COM

Inland Waters, Inc. 275 Scituate Avenue Johnston, RI 02919 (401) 943-5302

Spring 2012 CCTV Video Inspection of selected sanitary sewer lines

Clarke St., Narragansett Ave., Wollcott St., Hamilton Ave., Cananicus Ave. & Bay View Drive.

Infrastructure Technologies Data Generated CCTV Video Inspection Report (PACP Certified)

Town of Jamestown, WWTP 93 Narragansett Avenue Jamestown, RI 02835

March 9, 10, 11, 12 & 26, 2012

PIPELINE SERVICES

Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919

Project Summary

	: Town Of Ja							
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Ins
1B-11	1B-10	1B-11_1B-10	4/9/2012	Clarke	Vitrified Clay Pipe	6	377	36
		Pipe Size: 6		Total Ln.: 377	Inspected Ln.: 36			
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Ins
2-4	2-3	2-4_2-3	4/10/2012	Narragansett Ave	Vitrified Clay Pipe	8	316	63
		Pipe Size: 8		Total Ln.: 316	Inspected Ln.: 63		1	
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Ins
2-14	2-13B	2-14_2-13B	4/10/2012	Wollcott st	Asbestos Cement	12	92	92
2-14B	2-14	2-14B_2-14	4/10/2012	Wollcott st	Asbestos Cement	12	266	266
2-14C	2-14B	2-14C_2-14B	4/10/2012	Wollcott st	Asbestos Cement	12	280	280
2-14D	2-14C	2-14D_2-14C	4/10/2012	Wollcott st	Asbestos Cement	12	184	184
2-14E	2-14D	2-14E_2-14D	4/9/2012	Wollcott st	Asbestos Cement	12	298	298
2-14F	2-14E	2-14F_2-14E	4/9/2012	Wolicott st	Asbestos Cement	12	277	277
2-14G	2-14F	2-14G_2-14F	4/9/2012	Wollcott st	Asbestos Cement	12	289	289
2-23R	2-238	2-23Q 2-23-R	4/9/2012	Hamilton Ave	Asbestos Cement	12	303	303
2-23R	2-23\$	2-23R_2-23S	4/9/2012	Hamilton Ave	Asbestos Cement	12	266	266
2-235	2-14G	2-23S 2-14G	4/9/2012	Hamilton Ave	Asbestos Cement	12	302	302
2-3	2-2	2-3_2-2	4/10/2012	Narragansett Ave	Vitrified Clay Pipe	12	248	248
		Pipe Size: 12		Total Ln.: 2805	Inspected Ln.: 2805	1		
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Ins
2-12	2-38	2-12_2-39	4/11/2012	Cananicus Ave	Asbestos Cement	14	125	125
2-13	2-12	2-13_2-12	4/10/2012	Cananicus Ave	Asbestos Cement	14	229	229
2-23M	2-23N	2-23M_2-23N	4/9/2012	Hamilton Ave	Asbestos Cement	14	307	307
2-23N	2-23P	2-23N_2-23P	4/9/2012	Hamilton Ave	Asbestos Cement	14	279	279
2-23P	2-23Q	2-23P_2-23Q	4/9/2012	Hamilton Ave	Asbestos Cement	14	298	298
2-32	2-23M	2-32_2-23M	4/9/2012	Hamilton Ave	Asbestos Cement	14	240	240
2-38	2-39	2-38_2-39	4/11/2012	Cananicus Ave	Asbestos Cement	14	167	167
		Pipe Size: 14		Total Ln.: 1645	Inspected Ln.: 1645			
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
2-13A	2-13	2-13A_2-13	4/10/2012	Wollcott st	Asbestos Cement	15	257	257
2-13B	2-13A	2-13B_2-13A	4/10/2012	Wolicott st	Asbestos Cement	15	158	158
		Pipe Size: 15		Total Ln.: 415	Inspected Ln.: 415			
US MH	DS MH	Pipe ID	Date	Street	Material	Size	Total	Insp
2-39	4-39	2-39_4-39	4/11/2012	Cananicus Ave	Asbestos Cement	16	235	235
4-13A	5-32	4-13A_5-32	4/12/2012	Cananicus Ave	Asbestos Cement	16	138	138
4-37	4-13A	4-37_4-13A	4/11/2012	Cananicus Ave	Asbestos Cement	16	195	195
4-37	4-37A	4-37_4-37A	4/11/2012	Cananicus Ave	Asbestos Cement	16	282	282
4-38	4-37	4-38_4-37	4/11/2012	Cananicus Ave	Asbestos Cement		239	239
	4-38	4-39_4-38	4/11/2012	Cananicus Ave	Asbestos Cement	16	245	245
4-39		5-30 5-1_5-30 4/12/2012 Bay View Drive Asbestos Cement		16	341	341		
	5-30	5-1_5-30	17 12220 12					
4-39	5-30 5-30	5-1_5-30 5-1A_5-1	4/12/2012	Bay View Drive	Asbestos Cement	16	121	121
4-39 5-1 €				Bay View Drive Bay View Drive	Asbestos Cement Asbestos Cement	16 16	121 272	
4-39 5-1 € 5-1 €	5-30	5-1A_5-1	4/12/2012			200		121 272 302
4-39 5-1 € 5-1 € 5-1B	5-30 5-1A	5-1A_5-1 5-1B_5-1A	4/12/2012 4/12/2012	Bay View Drive	Asbestos Cement	16	272	272



Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919 401-943-5302

Project Summary

Pipe Size: 16

Total Ln.: 2904

Inspected Ln.: 2904

Project Total Ln.: 8462.0

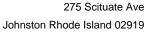
Project Inspected Ln.: 7868.0





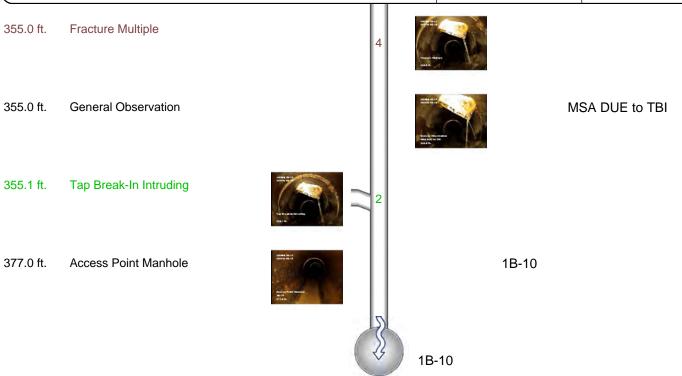
Pipe Seg	ment Refere	С	ity	Street	Mate	erial	Location C	Sewer Use
1B-1	1_1B-10	Jame	stown	Clarke	Vitrified (Clay Pipe	Light High	Sanitary
Ups	tream MH	Total Length		Year Laid	Sha	ape	Location Details	
·	IB-11	377			Circular			
DS	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint	
	IB-10	36			6	6	2	
SPR	4	MPR	13	PO Number				
CDDI	4	MDDI	0.0	-		То		wn
SPRI	4	MPRI	2.6	Work Order			Purpose	
QSR	4100	QMR	4132			Infiltrat	tration/Inflow Investigat	
	OPR	Surve	yed By	Direction	Da	ate	Media	alabel
	17	J_Perry		Downstream	20120409			
	OPRI	Certificat	e Number	Pre-Cleaning	Time		Weather	
	2.8	U-510-10733		No Pre-Cleaning	08:26		Dry	
	-		leaned		End	Time	Additio	nal Info
					08:	:36		







Pipe Segme	nt Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
1B-11_	1B-10	James	stown	Clarke	Vitrified Clay Pipe		Light High	Sanitary
Upstrea	am MH	Total Length		Year Laid	Sha	ape	Location Details	
1B-	-11	377			Circ	ular		
DS Manhole		Length surveyed		Year Renewed	Height	Width	Pipe Joint	
1B-	-10	36			6	6	2	
SPR	4	MPR	13	PO Number				
SPRI	4	MPRI	2.6	1	То		own of Jamesto	wn
SFRI	4	IVIFKI	2.0	Work Order			Purpose	
QSR	4100	QMR	4132			Infiltra	Itration/Inflow Investigat	
OF	PR	Surveyed By		Direction	Date		Media	a label
11	7	J_P	erry	Downstream	20120409			
OP	rRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
2.	2.8		-10733	No Pre-Cleaning	08:26		Dry	
	,		leaned		End	Time	Additio	nal Info
					08	:36		





401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	1B-11_1B-10	Jamestown	Clarke	Vitrified Clay Pipe		Light High	Sanitary
Г	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	1B-11	377		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	1B-10	36		6	6	2	



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 1B-11



Distance: 0.0 ft. Grade: (

Condition: Water Level

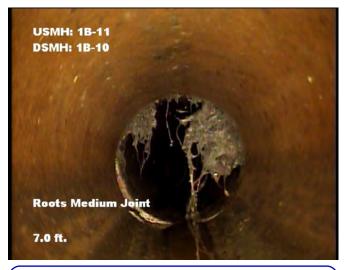
Remarks: N/A



Distance: 2.3 ft. Grade: 0

Condition: Tap Break-In Abandoned

Remarks: N/A



Distance: 7.0 ft. Grade: 3

Condition: Roots Medium Joint

Remarks: N/A



ug	,0		
	Material	Location C	Sewer Use
	Vitrified Clay Pipe	Light High	Sanitary
	Shane	Location	Details

- (Pipe Segment Refere	City	Street	Material		Location C	Sewer Use \
	1B-11_1B-10	Jamestown	Clarke	Vitrified Clay Pipe		Light High	Sanitary
ſ	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	1B-11	377		Circular			
ſ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(1B-10	36		6	6	2	ر ا



Distance: 9.8 ft. Grade:

Condition: Roots Fine Joint

Remarks: N/A



Distance: 13.5 ft. Grade: 3

Condition: Roots Medium Joint

Remarks: N/A



Distance: 13.9 ft. Grade:

Condition: Alignment Left

Remarks: N/A



Grade: Distance: 355.0 ft.

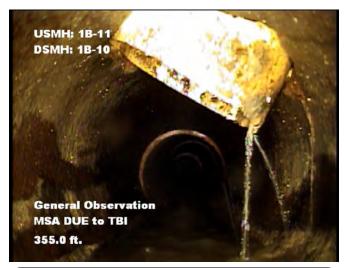
Condition: Fracture Multiple

Remarks: N/A



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	1B-11_1B-10	Jamestown	Clarke	Vitrified Clay Pipe		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Shape		Location	Details
1	1B-11	377		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	1B-10	36		6	6	2	



Distance: Grade: 355.0 ft.

Condition: **General Observation** Remarks: MSA DUE to TBI



355.1 ft. Grade: Distance: 2

Condition: Tap Break-In Intruding

Remarks: N/A



Distance: 377.0 ft. Grade: Condition:

Access Point Manhole

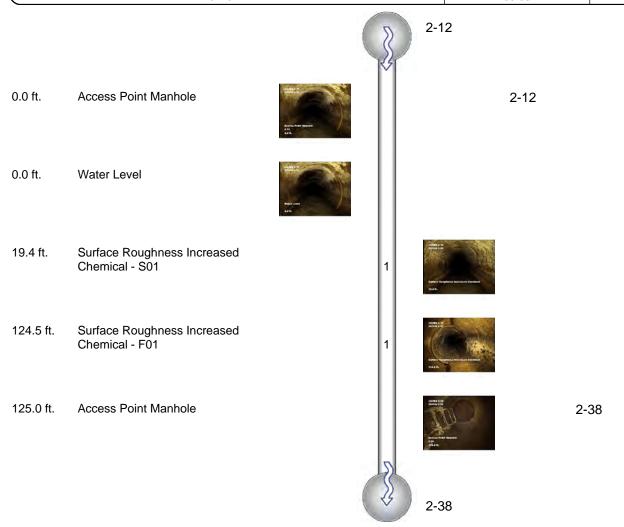
Remarks: 1B-10

Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919



Defect Listing Plot with Images

Pipe Segm	nent Refere	Ci	ity	Street	Mat	terial	Location C	Sewer Use	
2-12	2_2-39	James	stown	Cananicus Ave	Asbesto	s Cement	Light High	Sanitary	
Upstr	eam MH	Total Length		Year Laid	Sh	ape	Location Details		
2	!-12	125			Circ	cular	@ the inte	rsection	
DS N	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint		
2	!-38	12	25		14	14	10		
SPR	21	MPR	N/A	PO Number			Customer		
SPRI	1	MPRI	N/A			To		wn	
JFKI	ı	IVIFIXI	IN/A	Work Order			Purpose		
QSR	1C00	QMR	N/A			Infiltra	iltration/Inflow Investigat.		
C	PR	Surve	yed By	Direction	Da	ate	Media	a label	
	21	J_P	erry	Downstream	20120411				
С	PRI	Certificate	e Number	Pre-Cleaning	Tir	me	Weather		
	1	U-510-	-10733	Heavy Cleaning	06	:44	Dry		
		Date C	Cleaned	•	End	Time	Additio	nal Info	
			20120411			06	:53		





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(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-12_2-39	Jamestown	Cananicus Ave	Asbestos	Asbestos Cement		Sanitary
	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-12	125		Circ	ular	@ the inte	rsection
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-38	125		14	14	10	,



Distance: 0.0 ft, Grade: 0

Condition: Access Point Manhole

Remarks: 2-12



Distance: 0.0 ft. Grade: 0

Condition: Water Level

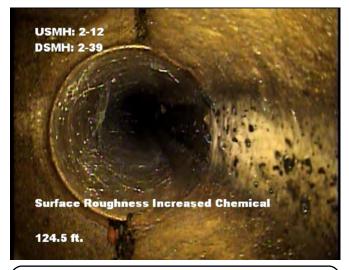
Remarks: N/A



Distance: 19.4 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: N/A



Distance: 124.5 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: N/A

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(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-12_2-39	Jamestown	Cananicus Ave	Asbestos	s Cement	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-12	125		Circ	ular	@ the inte	rsection
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	2-38	125		14	14	10	ر <u>ا</u>



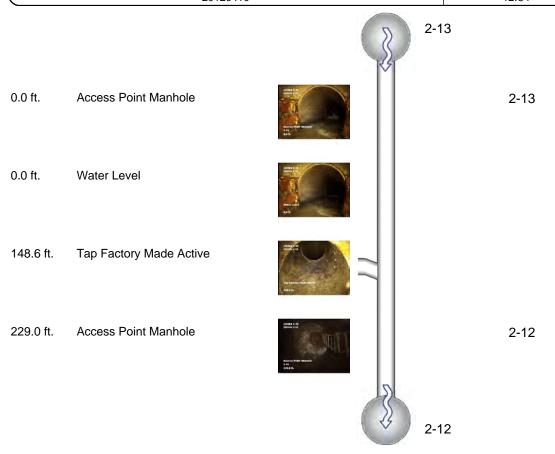
Distance: 125.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-38



Pipe Segm	ent Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-13	_2-12	James	stown	Cananicus Ave	Asbesto	s Cement	Light High	Sanitary
Upstre	eam MH	Total Length		Year Laid	Sh	ape	Location Details	
2	2-13		29		Circular			
DS M	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint	
2	-12	22	29		14	14	10	
SPR	N/A	MPR	N/A	PO Number			Customer	
SPRI	N/A	MPRI	N/A	-		То	wn Of Jamesto	own
JFKI	IN/A	IVIFIXI	IN/A	Work Order	Work Order		Purpose	
QSR	N/A	QMR	N/A			Infiltrat	tion/Inflow Inve	stigat
0	PR	Surveyed By		Direction	Date		Media	a label
N	I/A	J_P	erry	Downstream	20120410			
0	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
N	I/A	U-510-	-10733	Jetting	12	:23	Dry	
		Date C	leaned		End	Time	Additio	nal Info
			0410		12	:34		,





401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-13_2-12	Jamestown	Cananicus Ave	Asbestos Cement		Light High	Sanitary
Ī	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-13	229		Circular			
Ī	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-12	229		14	14	10	ر ا



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-13



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 148.6 ft. Grade:
Condition: Tap Factory Made Active

Remarks: N/A



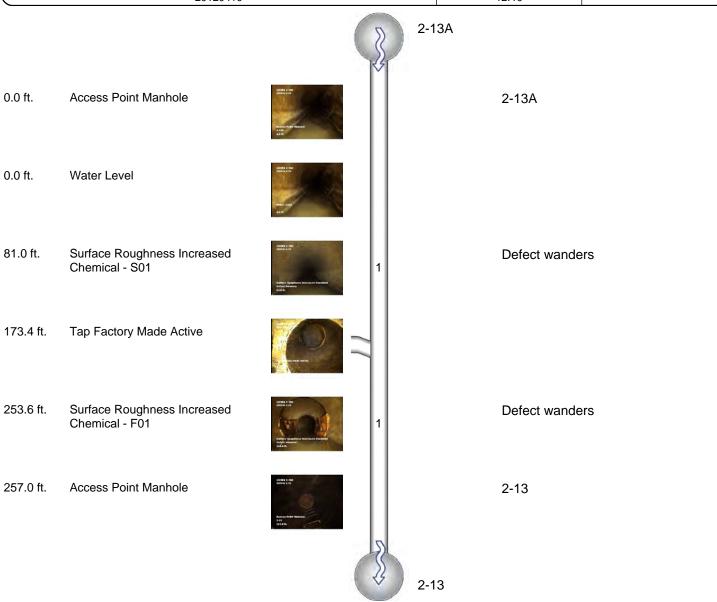
Distance: 229.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-12



Pipe Segm	ent Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-13A	A_2-13	James	stown	Wollcott st	Asbestos	s Cement	Light High	Sanitary
Upstre	am MH	Total Length		Year Laid	Shape		Location Details	
2-1	13A	25	57		Circular			
DS M	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint	
2-	2-13		57		15	15	10	
SPR	35	MPR	N/A	PO Number			Customer	
CDDI	SPRI 1		N/A			То	wn Of Jamesto	own
SPRI	Į.	MPRI	IN/A	Work Order			Purpose	
QSR	1F00	QMR	N/A		Infiltrat		tion/Inflow Inve	stigat
0	PR	Survey	ed By	Direction	Da	ate	Media	a label
3	35	J_P	erry	Downstream	20120410			
OI	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
	1	U-510-	-10733	Jetting	12	:09	Dry	
			leaned		End	End Time Addition		nal Info
		2012	0410		12	:19		





401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-13A_2-13	Jamestown	Wollcott st	Asbestos	Asbestos Cement		Sanitary
	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-13A	257		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
	2-13	257	15 15		10	ر <u>ا</u>	



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

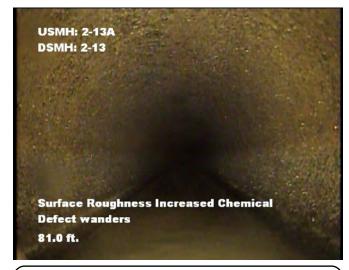
Remarks: 2-13A



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 81.0 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



Distance: 173.4 ft. Grade: 0

Condition: Tap Factory Made Active

Remarks: N/A



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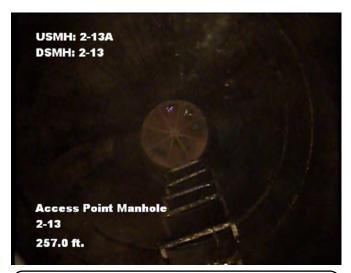
Pipe Segment Refere.	City	Street	Material		Location C	Sewer Use
2-13A_2-13	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-13A	257		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
2-13	257		15	15	10	l)



Distance: 253.6 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



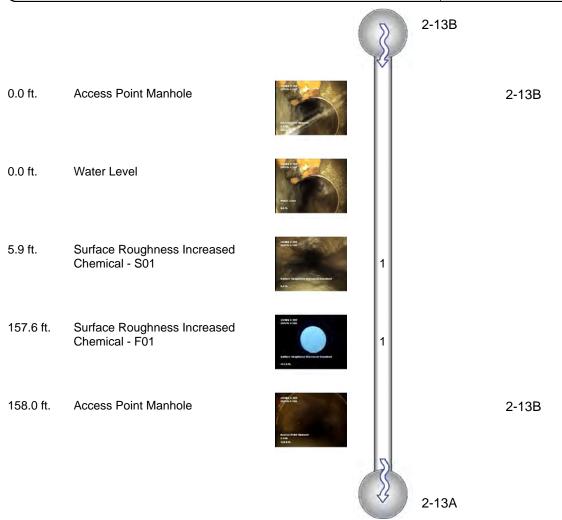
Distance: 257.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-13



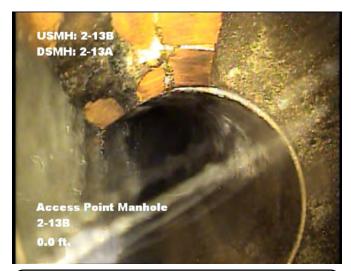
Pipe Segm	ent Refere	Ci	ty	Street	Mat	erial	Location C	Sewer Use
2-13B	_2-13A	James	stown	Wollcott st	Asbesto	s Cement	Light High	Sanitary
Upstre	am MH	Total L	ength	Year Laid	Sh	ape	Locatio	n Details
2-1	3B	158			Circular			
DS M	DS Manhole		urveyed	Year Renewed	Height	Width	Pipe Joint	
2-1	2-13A		58		15	15 15 10		
SPR 30		MPR	N/A	PO Number	lumber		Customer	
CDDI	SPRI 1		N/A			To	wn Of Jamesto	own
SPRI	ı	MPRI	IN/A	Work Order			Purpose	
QSR	1E00	QMR	N/A		Infiltrat		ion/Inflow Inve	estigat
0	PR .	Survey	ed By	Direction	Da	ate	Media	a label
3	0	J_Perry		Downstream	20120410			
O	PRI	Certificate	Number	Pre-Cleaning	Time		Weather	
	1		10733	Jetting	11:31		Dry	
		Date C	leaned		End	Time	Additio	nal Info
		2012	0410		11	:40		





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(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-13B_2-13A	Jamestown	Wollcott st	Asbestos	Asbestos Cement		Sanitary
	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-13B	158		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
	2-13A	158		15	15	10	ر <u>ا</u>



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-13B



Distance: 0.0 ft. Grade: (

Condition: Water Level

Remarks: N/A



Distance: 5.9 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: N/A



Distance: 157.6 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: N/A

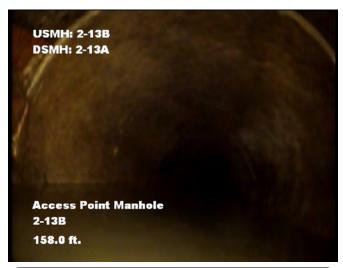
Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919



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(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-13B_2-13A	Jamestown	Wollcott st	Asbestos	s Cement	Light High	Sanitary
ſ	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-13B	158		Circ	ular		
ſ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-13A	158		15	15	10	



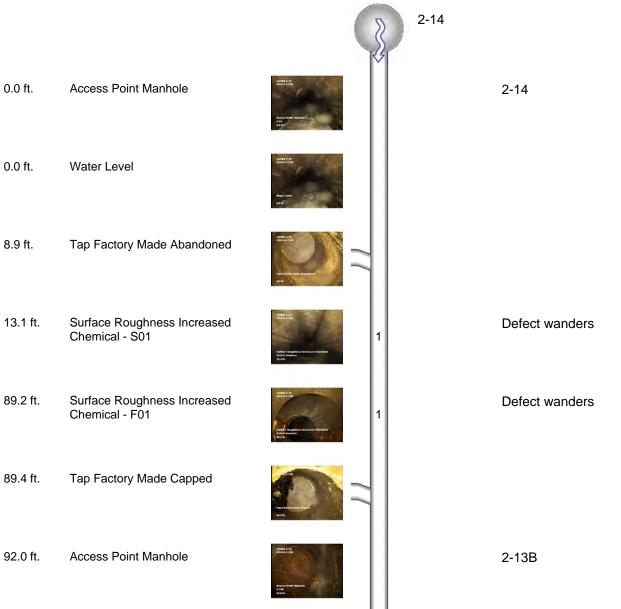
Distance: 158.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-13B



Pipe Seg	ment Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-1	4_2-13B	James	stown	Wollcott st	Asbestos	Cement	Light High	Sanitary
Ups	tream MH	Total I	_ength	Year Laid	Sha	ape	Location	Details
	2-14	9	2		Circular			
DS	Manhole	Length surveyed		Year Renewed	Height	Width	Pipe Joint	
	2-13B	9	2		12	12	10	
SPR	15	MPR	N/A	PO Number	PO Number		Customer	
SPRI	4	MPRI	NI/A			To	own Of Jamestown	
SPRI	ı	IVIPRI	N/A	Work Order			Purpose	
QSR	1B00	QMR	N/A		Infiltrat		ion/Inflow Inve	stigat
	OPR	Survey	yed By	Direction	Da	ate	Media	alabel
	15	J_P	erry	Downstream	20120410			
	OPRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
	1	U-510-	-10733	Jetting	11:17		Dry	
		Date C	leaned		End	Time	Additio	nal Info
		2012	0410		11:	28		







401-943-5302

/ Pipe Segr	nent Refere	C	ity	Street	Mate	erial	Location C	Sewer Use `
2-14	_2-13B	Jame	stown	Wollcott st	Asbestos	Cement	Light High	Sanitary
Upst	eam MH	Total I	Length	Year Laid	Shape		Location Details	
	2-14	92			Circular			
DSI	Manhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
2	-13B	9)2		12	12	10	
SPR	15	MPR	N/A	PO Number			Customer	
SPRI	1	MPRI	N/A	1		То	wn Of Jamesto	wn
SPRI	Į.	IVIPRI IV/A	Work Order	Work Order		Purpose		
QSR	1B00	QMR	N/A			Infiltrat	ion/Inflow Inve	stigat
(OPR	Surve	yed By	Direction	Da	ite	Media	alabel
	15	J_P	erry	Downstream	2012	120410		
(PRI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather	
	1	U-510	-10733	Jetting	11:	17	Dry	
			Cleaned	•	End .	Time	Additio	nal Info
		2012	20410		11:	28		



2-13B



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
1	2-14_2-13B	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Г	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-14	92		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
l	2-13B	92		12	12	10	



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

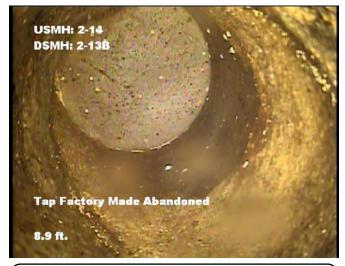
Remarks: 2-14



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 8.9 ft. Grade: 0

Condition: Tap Factory Made Abandoned

Remarks: N/A



Distance: 13.1 ft. Grade: 1

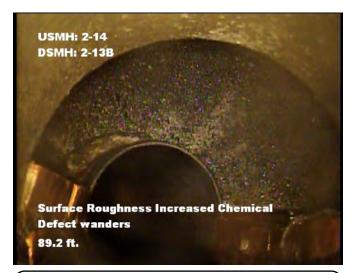
Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



401-943-5302

Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
2-14_2-13B	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-14	92		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
2-13B	92	12 12		10		



Distance: 89.2 ft. Grade:

Condition: Surface Roughness Increased Chemical

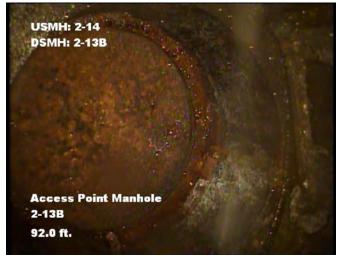
Remarks: Defect wanders



Distance: 89.4 ft. Grade: 0

Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 92.0 ft. Grade: Condition:

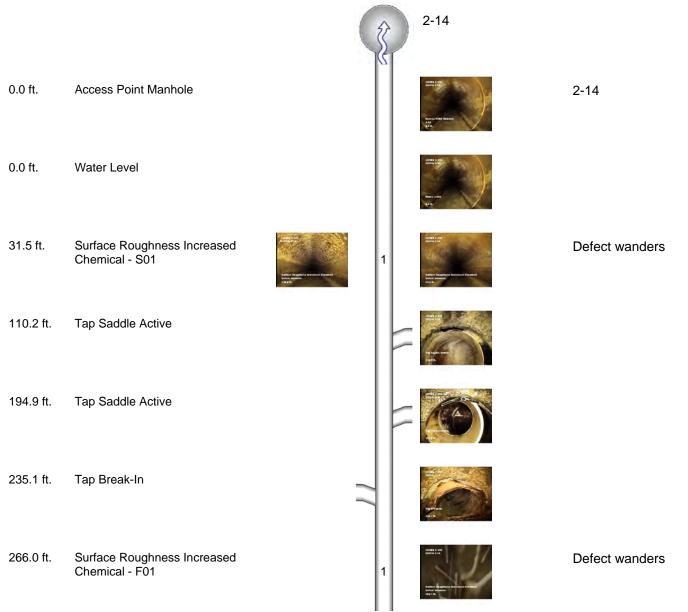
Access Point Manhole

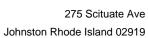
Remarks: 2-13B





Pipe Segm	ent Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-14E	3_2-14	James	stown	Wollcott st	Asbestos	s Cement	Light High	Sanitary
Upstre	am MH	Total I	_ength	Year Laid	Sha	ape	Location	n Details
2-	14B	26	66		Circular			
DS M	anhole	Length surveyed		Year Renewed	Height	Width	Pipe Joint	
2.	2-14		66		12	12	10	
SPR	47	MPR	N/A	PO Number	PO Number		Customer	
SPRI	1	MPRI	N/A	1		То	own Of Jamestown	
SPRI	Į.	IVIPRI	IN/A	Work Order			Purpose	
QSR	1H00	QMR	N/A		Infiltrat		tion/Inflow Inve	stigat
0	PR	Surve	yed By	Direction	Date		Media	a label
4	17	J_P	erry	Upstream	20120410			
0	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
	1		-10733	Jetting	10:	:14	Dry	
		Date C	leaned		End	Time	Additio	nal Info
		2012	0410		10:	:28		







401-943-5302

Pipe Segm	nent Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-14	B_2-14	James	stown	Wollcott st	Asbesto	s Cement	Light High	Sanitary
Upstre	eam MH	Total Length		Year Laid	Shape		Location Details	
2-	14B	266			Circular			
DS M	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint	
2	-14	26	66		12	12	10	
SPR	47	MPR	N/A	PO Number			Customer	
SPRI	1	MPRI	N/A			To	wn Of Jamesto	wn
SFRI	ı	IVIFKI	IN/A	Work Order			Purpose	
QSR	1H00	QMR	N/A			Infiltra	Infiltration/Inflow Investigat.	
0)PR	Survey	yed By	Direction	Da	ate	Media labe	
4	47	J_Perry		Upstream	20120410			
0	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
	1	U-510-	-10733	Jetting	10:14		Dry	
			Date Cleaned		End Time		Additional Info	
		2012	0410		10:28			

266.0 ft. Access Point Manhole



2-14B



401-943-5302 Location C... | Sewer Use

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-14B_2-14	Jamestown	Wollcott st	Asbestos	Cement	Light High	Sanitary
Г	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-14B	266		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14	266		12	12	10	ر ا



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-14



Distance: 0.0 ft. Grade: (

Condition: Water Level

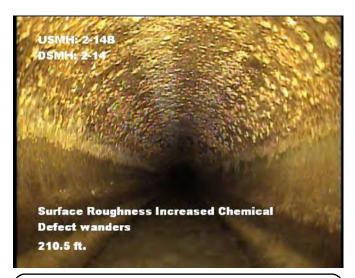
Remarks: N/A



Distance: 31.5 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



Distance: 31.5 ft. Grade: 1

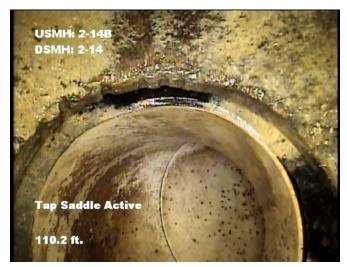
Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-14B_2-14	Jamestown	Wollcott st	Asbestos	Cement	Light High	Sanitary
Г	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-14B	266		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14	266		12	12	10	ر ا



Distance: 110,2 ft. Grade: 0

Condition: Tap Saddle Active

Remarks: N/A



Distance: 194.9 ft. Grade: 0

Condition: Tap Saddle Active

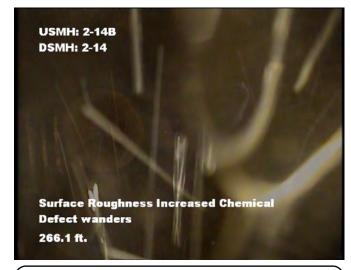
Remarks: N/A



Distance: 235.1 ft. Grade: 0

Condition: Tap Break-In

Remarks: N/A



Distance: 266.0 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders

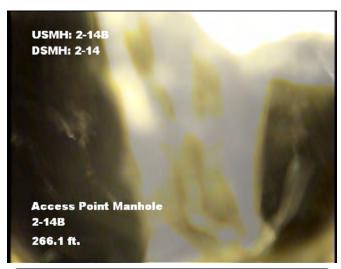
Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919



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(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-14B_2-14	Jamestown	Wollcott st	Asbestos	Cement	Light High	Sanitary
Г	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-14B	266		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14	266		12	12	10	ر ا



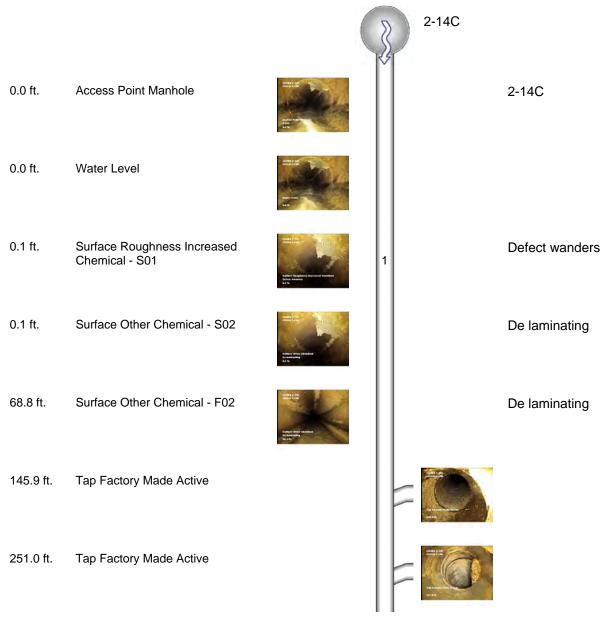
Distance: 266.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-14B



Pipe Segme	ent Refere	Ci	ty	Street	Material		Location C	Sewer Use
2-14C_	_2-14B	Jamestown		Wollcott st	Asbestos Cement		Light High	Sanitary
Upstrea	Upstream MH 2-14C		ength	Year Laid	Sha	ape	Location Details	
2-1			30		Circ	ular		
DS Ma	anhole	Length s	urveyed	Year Renewed	Height	Width	Pipe Joint	
2-1	4B	280			12	12	10	
SPR	56	MPR	N/A	PO Number			Customer	
SPRI	0.8	MPRI	N/A				own Of Jamestown	
SFRI	0.6	IVIFKI	IN/A	Work Order			Purpose	
QSR	1J00	QMR	N/A			Infiltrat	ation/Inflow Investigat	
OF	PR	Survey	ed By	Direction	Date		Media label	
5	6	J_Po	erry	Downstream	2012	0410		
OF	PRI	Certificate	Number	Pre-Cleaning	Time		Weather	
0.	8	U-510-	-10733	Jetting	09:	:36	Dry	
	Date Cleaned				End	End Time Additional In		nal Info
		20120410		09:53				





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Pipe Segm	ent Refere	Ci	ity	Street	Material		Location C	Sewer Use	
2-14C	_2-14B	James	stown	Wollcott st	Asbestos Cement		Light High	Sanitary	
Upstre	Upstream MH		Length	Year Laid	Shape		Location Details		
2-1	2-14C		30		Circular				
DS M	anhole	Length surveyed		Year Renewed	Height	Width	Pipe Joint		
2-1	14B	280			12	12	10		
SPR			N/A	PO Number		Customer			
SPRI			N/A			То	own Of Jamestown		
01 101	0.0	MPRI	111/75	Work Order		Purpose			
QSR	1J00	QMR	N/A			Infiltra	ation/Inflow Investigat		
0	PR	Survey	yed By	Direction	Date		Media label		
5	56	J_P	erry	Downstream	20120410				
IO	PRI	Certificate	e Number	Pre-Cleaning	Tir	me	Weather		
0	.8	U-510-	-10733	Jetting	09:36		Dry		
		Date C	leaned		End	End Time		nal Info	
			20120410			09:53			

279.7 ft. Surface Roughness Increased Chemical - F01

Defect wanders

280.0 ft. Access Point Tee Connection



2-14B

Outside drop for mh 2-14B



401-943-5302

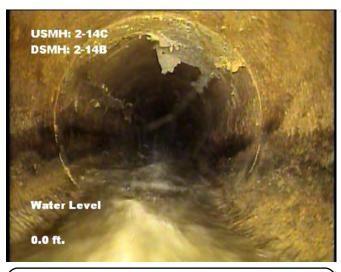
(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-14C_2-14B	Jamestown	Wollcott st	Asbestos	Cement	Light High	Sanitary
Γ	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-14C	280		Circular			
Ī	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14B	280		12	12	10	ر ا



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-14C



Distance: 0.0 ft. Grade:

Condition: Water Level

Remarks: N/A



Distance: 0.1 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



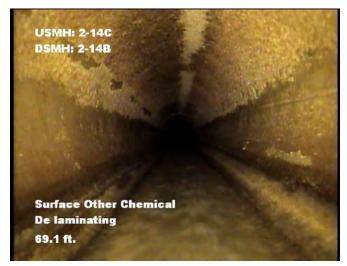
Distance: 0.1 ft. Grade: 0

Condition: Surface Other Chemical

Remarks: De laminating



Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
2-14C_2-14B	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-14C	280		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2 1/1	200		10	10	10	



Distance: 68.8 ft. Grade: 0

Surface Other Chemical

Remarks: De laminating

Condition:



Distance: 145.9 ft. Grade: (

Condition: Tap Factory Made Active

Remarks: N/A



Distance: 251.0 ft. Grade: 0
Condition: Tap Factory Made Active

Remarks: N/A



Distance: 279.7 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders

Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919



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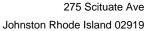
Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
2-14C_2-14B	Jamestown	Wollcott st	Asbestos	s Cement	Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-14C	280		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-14B	280		12	12	10	



Distance: 280.0 ft. Grade: 0

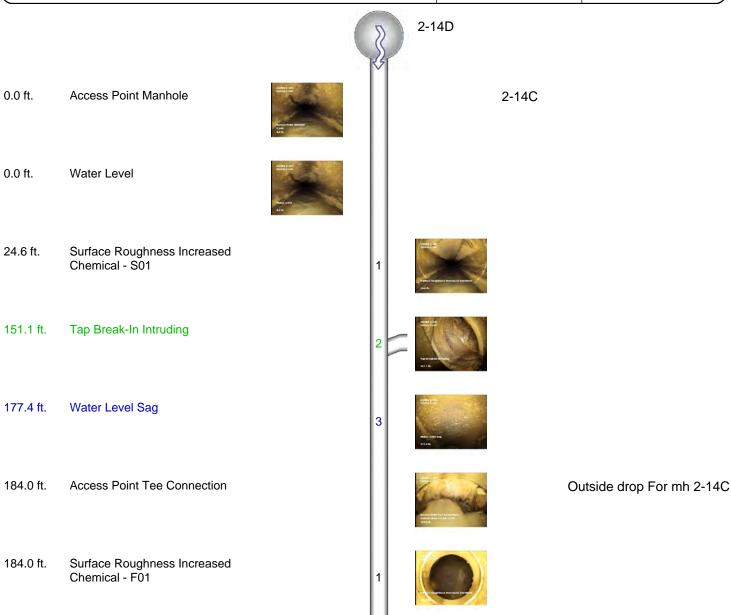
Condition: Access Point Tee Connection

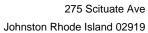
Remarks: Outside drop for mh 2-14B





Pipe Segm	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use	
2-14D	_2-14C	Jamestown		Wollcott st	Asbestos Cement		Light High	Sanitary	
Upstream MH		Total Length		Year Laid	Sh	ape	Location Details		
2-	14D	18	34		Circ	ular			
DS M	anhole	Length surveyed		Year Renewed	Height	Width	Pipe Joint		
2-	14C	18	34		12	12	10		
SPR	32	MPR	5	PO Number		Customer			
CDDI	4	MDDI				То	own Of Jamestown		
SPRI	1	MPRI	2.5	Work Order			Purpose		
QSR	1E00	QMR	3121			Infiltrat	Infiltration/Inflow Investigat		
0	PR	Surve	yed By	Direction	Date		Media label		
3	37	J_P	erry	Downstream	20120410				
O	PRI	Certificat	e Number	Pre-Cleaning	Time		Weather		
1	.1	U-510	-10733	Jetting	08	:42	Dry		
	Date Cleaned				End	End Time Additional Info		nal Info	
		2012	0410		08	:57			







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Pipe Segn	Pipe Segment Refere 2-14D_2-14C Upstream MH 2-14D		City	Street	Mat	erial	Location C	Sewer Use	
2-140			stown	Wollcott st	Wollcott st Asbestos Cement		Light High	Sanitary	
Upstr			Length	Year Laid Shape		ape Location De		Details	
2-			84		Circular				
DS N	/lanhole	Length surveyed 184		Year Renewed	Height	Width	Pipe Joint		
2-	14C				12	12	10		
SPR	SPR 32		5	PO Number		PO Number C		Customer	
CDDI	4	MPRI			То	Town Of Jamestown			
SPRI	1	MPRI 2.5	Work Order		Purpose				
QSR	1E00	QMR	3121			Infiltra	Itration/Inflow Investigat		
)PR	Surve	yed By	Direction	n Date		Media	alabel	
	37	J_P	Perry	Downstream	2012	0410			
C	PRI	Certificat	te Number	Pre-Cleaning	Tir	me	Weather		
	1.1	U-510-10733		Jetting	08:	:42	Dry		
		Date C	Cleaned		End Time		Additional Info		
	20120410				08:	:57		_	



2-14C



401-943-5302

(Pipe Segment Refere	City	Street	Mate	Material		Sewer Use
	2-14D_2-14C	Jamestown	Wollcott st	Asbestos	Cement	Light High	Sanitary
Ī	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-14D	184		Circular			
Ī	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14C	184		12	12	10	ر ا



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

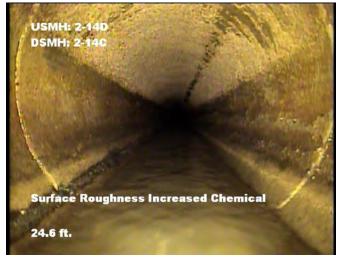
Remarks: 2-14C



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 24.6 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: N/A



Distance: 151.1 ft. Grade: 2

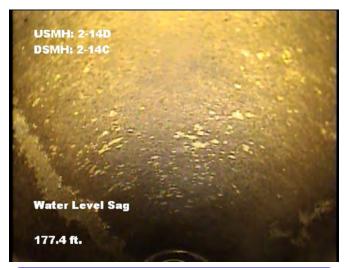
Condition: Tap Break-In Intruding

Remarks: N/A



401-943-5302

1	Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-14D_2-14C	Jamestown	Wollcott st	Asbestos	s Cement	Light High	Sanitary
Ī	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	2-14D	184		Circ	ular		
Ī	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
- (2-14C	184		12	12	10	



Distance: 177.4 ft. Grade: 3

Condition: Water Level Sag

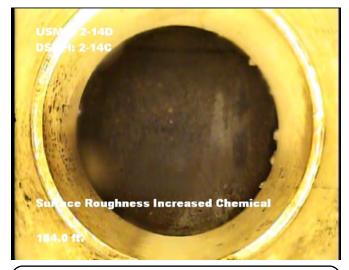
Remarks: N/A



Distance: 184.0 ft. Grade: 0

Condition: Access Point Tee Connection

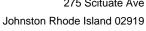
Remarks: Outside drop For mh 2-14C



Distance: 184.0 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: N/A





401-943-5302

Pipe Se	egment Refere	City		Stre	eet		Material		Location C	Sewer Use
	4E_2-14D	Jamestow	'n	Wollc		Asb	estos Cer	ment	Light High	Sanitary
Up	stream MH	Total Lengt	h	Year	Laid		Shape		Location	Details
	2-14E	298					Circular			
D	S Manhole	Length surve	yed	Year Re	enewed	Heigh	t	Width	Pipe Joint	
	2-14D	298				12		12	10	
SPR	64	MPR	N/A		PO Num	nber			Customer	
SPRI	1.1	MPRI	N/A					To	own of Jamesto	wn
					Work O	rder			Purpose	
QSR	511J	QMR	N/A					Infiltra	tion/Inflow Inve	
	OPR	Surveyed B	у	Direc			Date		Media	alabel
	64 OPRI	J_Perry Certificate Nur	nhor	Downstream Pre-Cleaning			20120409 Time	1	Weather	
	1.1	U-510-107		Jett			11me 14:14		Dry	
	1.1	Date Cleane		Jett	iiig		End Time			l nal Info
		20120409					14:36		Additio	ilai ililo
0 ft.	Access Point N	vice in Oio					2-14	_		
Oft.	Water Level		4							
3 ft.	Surface Missir	ng Wall Unknown	***		5					
					11 11					

10.7 ft. Surface Other Chemical

109.5 ft. Surface Other Chemical

295.8 ft. Surface Roughness Increased Chemical - F01





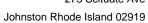




Delaminating

Delaminating

Defect wanders





401-943-5302

Pipe Segme	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use
2-14E	_2-14D	James	stown	Wollcott st	Asbestos	s Cement	Light High	Sanitary
Upstre	am MH	Total I	Length	Year Laid	Sha	ape	Location	n Details
2-1	14E	29	98		Circ	Circular		
DS Manhole		Length s	Length surveyed Year Renewed		Height	Width	Pipe Joint	
2-1	14D	29	98		12	12	10	
SPR	64	MPR	N/A	PO Number Work Order			Customer	
SPRI	1.1	MPRI	N/A			Т	own of Jamesto	wn
SFRI	1.1	IVIFKI	IN/A				Purpose	
QSR	511J	QMR	N/A			Infiltra	ation/Inflow Inve	stigat
O	PR	Surve	yed By	Direction Date		Media label		
6	64	J_P	erry	Downstream	2012	0409		
OF	PRI	Certificate	e Number	Pre-Cleaning	Tir	me	Weather	
1	.1	U-510	-10733	Jetting	14:	:14	Dry	
			leaned		End	Time	Additio	nal Info
		2012	0409		14:	:36		

298.0 ft. Access Point Manhole



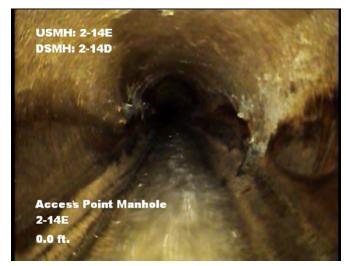
2-14D

2-14D



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-14E_2-14D	Jamestown	Wollcott st	Asbestos	Cement	Light High	Sanitary
ſ	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
-	2-14E	298		Circ	ular		
ſ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14D	298		12	12	10	/



Distance: 0.0 ft, Grade: 0

Condition: Access Point Manhole

Remarks: 2-14E



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 0.8 ft. Grade: 5
Condition: Surface Missing Wall Unknown

Remarks: N/A



Distance: 1.6 ft. Grade: 1

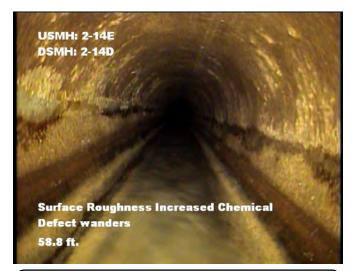
Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



401-943-5302

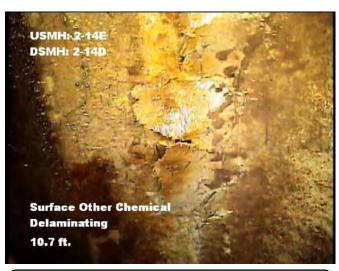
(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-14E_2-14D	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Γ	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-14E	298		Circ	ular		
Ī	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14D	298		12	12	10	ر ا



Distance: Grade: 1.6 ft.

Condition: Surface Roughness Increased Chemical

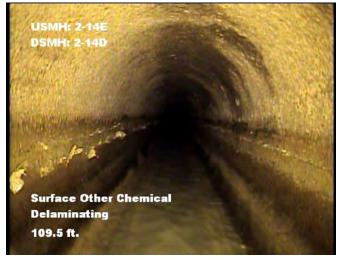
Remarks: **Defect wanders**



10.7 ft. Grade: Distance:

Condition: Surface Other Chemical

Remarks: Delaminating



Distance: 109.5 ft. Grade: 0 Condition:

Surface Other Chemical

Remarks: Delaminating



Distance: 295.8 ft. Grade:

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders

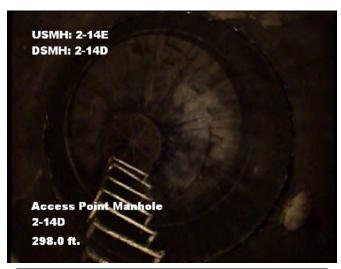
Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919



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401-943-5302

Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
2-14E_2-14D	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Sh	ape	Location	Details
2-14E	298		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-14D	298		12	12	10	



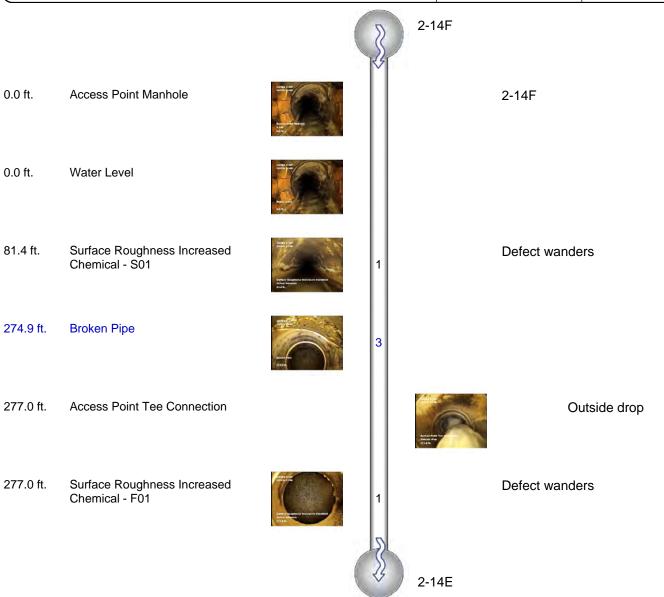
Distance: 298.0 ft. Grade: 0

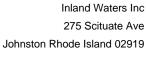
Condition: Access Point Manhole

Remarks: 2-14D



Pipe Segme	ent Refere	Ci	ty	Street	Mat	erial	Location C	Sewer Use
2-14F ₋	_2-14E	James	stown	Wollcott st	Asbesto	s Cement	Light High	Sanitary
Upstre	am MH	Total L	ength	Year Laid	Sh	ape	Location Details	
2-1	14F	27	77		Circular			
DS Manhole		Length surveyed		Year Renewed	Height	Width	Pipe Joint	
2-1	2-14E		77		12	12	10	
SPR 42		MPR	N/A	PO Number		Customer		,
SPRI			N/A	1		To	wn of Jamesto	wn
SFKI	1.1	MPRI	IN/A	Work Order	Work Order		Purpose	
QSR	311F	QMR	N/A			Infiltra	tion/Inflow Inve	stigat
OI	PR	Survey	ed By	Direction	Date		Media label	
4	2	J_Po	erry	Downstream	20120409			
OF	PRI	Certificate	Number	Pre-Cleaning	Time		Weather	
1	1.1		10733	Jetting	13	:28	Dry	
			leaned		End Time		Additional Info	
		2012	0409		13	:55		







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Pipe Segment Refere	City	Street	Mate	Material		Sewer Use
2-14F_2-14E	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Sha	Shape		Details
2-14F	277		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-14E	277		12	12	10	را



Distance: 0.0 ft, Grade: 0

Condition: Access Point Manhole

Remarks: 2-14F



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 81.4 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



Distance: 274.9 ft. Grade: 3

Condition: Broken Pipe

Remarks: N/A



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-14F_2-14E	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
Ī	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-14F	277		Circ	ular		
Ī	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14E	277		12	12	10	ر ا



Distance: 277.0 ft. Grade: (
Condition: Access Point Tee Connection

Remarks: Outside drop



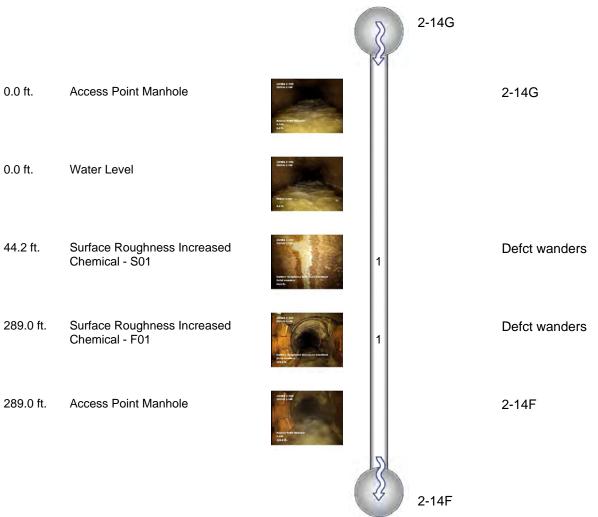
Distance: 277.0 ft. Grade:

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders



Pipe Segm	ent Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-14G	_2-14F	James	stown	Wollcott st	Asbestos	s Cement	Light High	Sanitary
Upstre	eam MH	Total L	_ength	Year Laid	Sha	ape	Locatio	n Details
2-	14G	28	39		Circ	ular		
DS M	DS Manhole		e Length surveyed		Height	Width	Pipe Joint	
2-	2-14F		39		12	12	10	
SPR	49	MPR	N/A	PO Number		Customer		
SDD1	SPRI 1		N/A			То	wn of Jamesto	own
SFRI	Į.	MPRI	IN/A	Work Order			Purpose	
QSR	1H00	QMR	N/A			Infiltrat	ion/Inflow Inve	estigat
0	OPR Surveyed By		Direction	Da	ate	Media	a label	
4	19	J_Perry		Downstream	20120409			
0	PRI	Certificate	e Number	Pre-Cleaning	Time		Weather	
	1		-10733	Jetting	13:59		Dry	
			Date Cleaned		End Time		nd Time Additional Ir	
		2012	0409		14	:00		





401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-14G_2-14F	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-14G	289		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	2-14F	289		12	12	10	ر ا



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

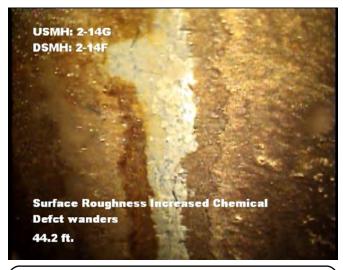
Remarks: 2-14G



Distance: 0.0 ft. Grade: (

Condition: Water Level

Remarks: N/A



Distance: 44.2 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defct wanders



Distance: 289.0 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defct wanders

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(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-14G_2-14F	Jamestown	Wollcott st	Asbestos Cement		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	2-14G	289		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	2-14F	289		12	12	10	ر <u>ا</u>



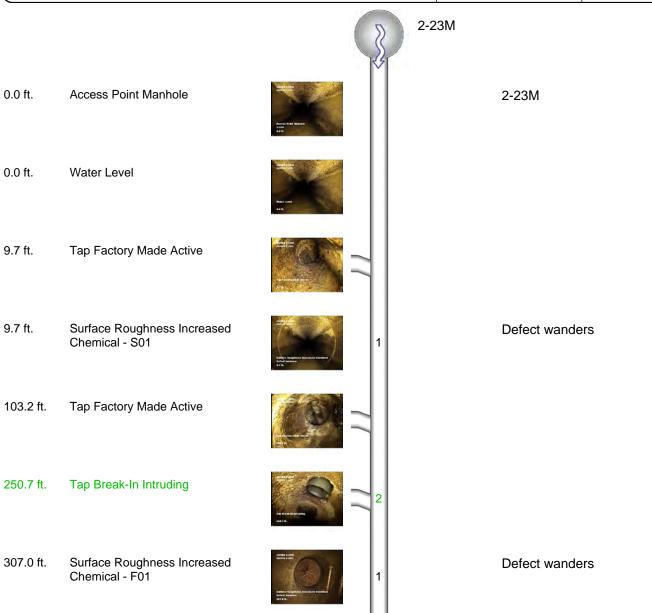
Distance: 289.0 ft. Grade: 0

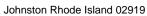
Condition: Access Point Manhole

Remarks: 2-14F



Pipe Segm	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use		
2-23M	_2-23N	Jame	stown	Hamilton Ave	Asbestos	s Cement	Light High	Sanitary		
Upstre	am MH	Total	Length	Year Laid	Sha	ape	Location	n Details		
2-2	23M	30	07		Circular					
DS M	anhole	Length surveyed		Year Renewed	Height	Width	Pipe Joint			
2-2	2-23N		07		14	14	10			
SPR	SPR 59		2	PO Number			Customer			
CDDI	SPRI 1		2	1		То	wn of Jamesto	wn		
SPRI	ı	MPRI		Work Order			Purpose			
QSR	1J00	QMR	2100			Infiltrat	ion/Inflow Inve	stigat		
0	PR	Surveyed By		Direction	Da	ate	Media	a label		
6	61	J_P	erry	Downstream	20120409					
O	PRI	Certificate Number		Pre-Cleaning	Time		Weather			
	1	U-510	-10733	Jetting	09	:48	Dry			
	Date Cleaned		•	End	Time	Additio	nal Info			
			20120409				10	:00		







401-943-5302

Pipe Segm	ent Refere	C	ity	Street	Mat	erial	Location C	Sewer Use
2-23M	_2-23N	Jame	stown	Hamilton Ave	Asbesto	s Cement	Light High	Sanitary
Upstre	am MH	Total	Length	Year Laid	Sh	ape	Location	Details
2-2	23M	3	07		Circular			
DS M	DS Manhole		surveyed	Year Renewed	Height Width		Pipe Joint	
2-2	2-23N		07		14	14	10	
SPR	59	MPR	2	PO Number			Customer	
SPRI	1	MPRI	2			To	own of Jamesto	wn
SFRI	!	IVIFIXI		Work Order			Purpose	
QSR	1J00	QMR	2100			Infiltra	tion/Inflow Inve	stigat
0	PR	Surveyed By		Direction	Da	ate	Media	label
6	31	J_P	erry	Downstream	20120409			
O	PRI	Certificat	e Number	Pre-Cleaning	Time		Weather	
	1	U-510	-10733	Jetting	09	:48	Dry	
		Date C	Cleaned		End	Time	Additio	nal Info
		2012	20409		10	:00		

307.0 ft. Access Point Manhole



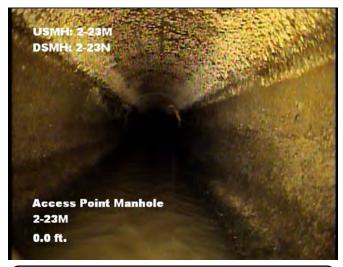
2-23N

2-23N



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-23M_2-23N	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
Г	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-23M	307		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
l	2-23N	307		14 14		10	



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

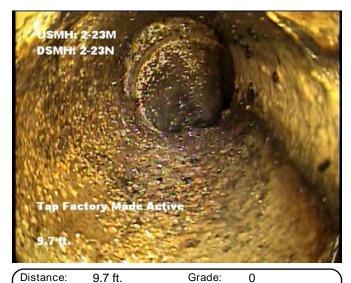
Remarks: 2-23M



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 9.7 ft. Grade:
Condition: Tap Factory Made Active

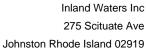
Remarks: N/A



Distance: 9.7 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect wanders





401-943-5302

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
2-23M_2-23N	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Sha	Shape		Details
2-23M	307		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
2-23N	307		14	14	10	



Distance: 103.2 ft. Grade: 0

Tap Factory Made Active

Remarks: N/A

Condition:



Distance: 250.7 ft. Grade: 2

Condition: Tap Break-In Intruding

Remarks: N/A



Distance: 307.0 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

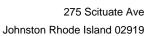
Remarks: Defect wanders



Distance: 307.0 ft. Grade: 0

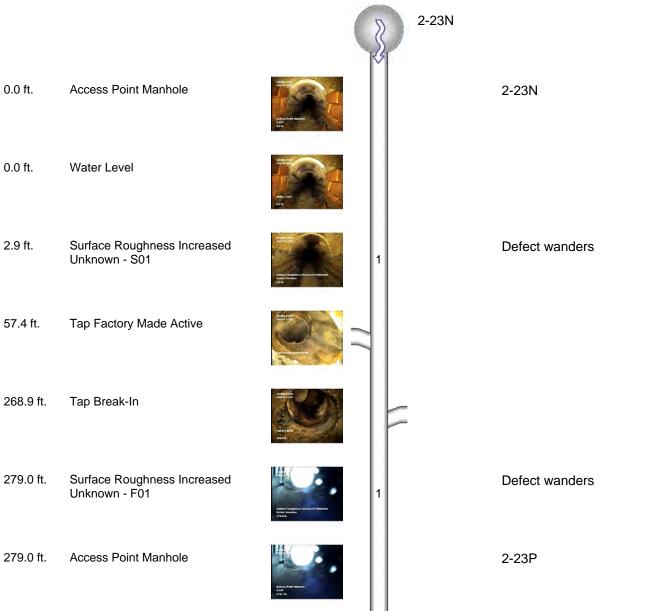
Condition: Access Point Manhole

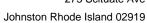
Remarks: 2-23N





Segment F	Refere	С	ity	Street	Mate	erial	Location C	Sewer Use
2-23N_2-2	23P	Jame	stown	Hamilton Ave	Asbestos	Cement	Light High	Sanitary
Upstream N	МН	Total I	Length	Year Laid	Sha	ipe	Location	Details
2-23N		27	79		Circ	ular		
DS Manho	ole	Length surveyed		Year Renewed	Height	Width	Pipe Joint	
2-23P		279			14	14	10	
SPR 55		MPR	N/A	PO Number		Customer		
SPRI 1		MDDI	NI/A			Т	own of Jamesto	wn
KI	1	MPRI	N/A	Work Order			Purpose	
₹	1J00	QMR	N/A			Infiltra	ation/Inflow Inve	stigat
OPR		Surve	yed By	Direction	Date		Media	label
55		J_P	erry	Downstream	20120409			
OPRI		Certificat	e Number	Pre-Cleaning	Tin	ne	Weather	
1		U-510	-10733	Jetting	10:	06	Dry	
Date Cleaned		leaned		End ⁻	Гime	Additio	nal Info	
		2012	0409		10:	21		







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Pipe Segm	ent Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-23N	_2-23P	James	stown	Hamilton Ave	Asbestos	s Cement	Light High	Sanitary
Upstre	eam MH	Total L	_ength	Year Laid	Sha	ape	Location	n Details
2-2	23N	27	79		Circ	cular		
DS M	lanhole	Length surveyed		Year Renewed	Height	Width	Pipe Joint	
2-2	2-23P		79		14	14	10	$oxed{oldsymbol{oldsymbol{oldsymbol{eta}}}$
SPR	SPR 55		N/A	PO Number		Customer		
CDDI	SPRI 1		NI/A			То	wn of Jamesto	wn
SPRI	I.	MPRI	N/A	Work Order			Purpose	
QSR	1J00	QMR	N/A			Infiltrat	ion/Inflow Inve	estigat
0	PR	Surveyed By		Direction	Da	ate	Media	a label
	55	J_Perry		Downstream	20120409			
O	PRI	Certificate Number		Pre-Cleaning	Time		Weather	
	1	U-510-	-10733	Jetting	10	:06	Dry	
			leaned		End	Time	Additio	nal Info
			0409		10	:21		



2-23P



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	Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-23N_2-23P	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-23N	279		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
l	2-23P	279		14	14	10	



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

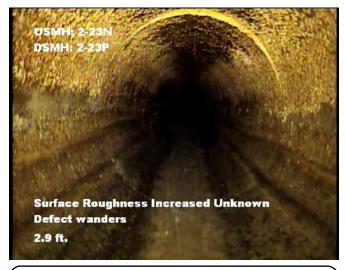
Remarks: 2-23N



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 2.9 ft. Grade: 1

Condition: Surface Roughness Increased Unknown

Remarks: Defect wanders



Distance: 57.4 ft. Grade: 0

Condition: Tap Factory Made Active

Remarks: N/A

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(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-23N_2-23P	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-23N	279		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
	2-23P	279		14 14		10	



Distance: 268.9 ft. Grade:

Condition: Tap Break-In

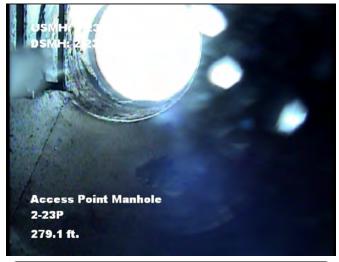
Remarks: N/A



Distance: 279.0 ft. Grade:

Condition: Surface Roughness Increased Unknown

Remarks: Defect wanders



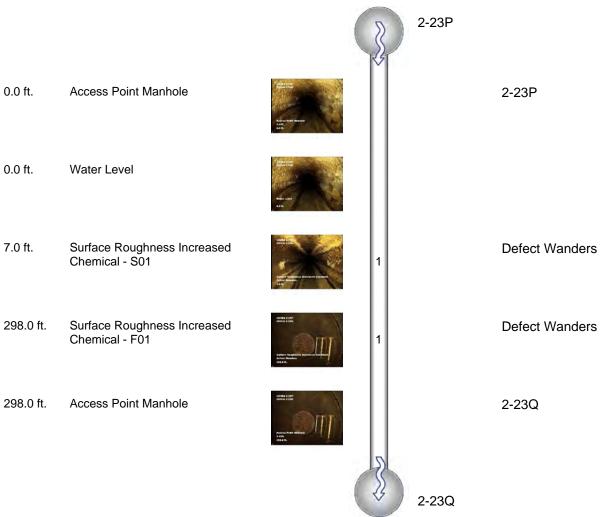
Distance: 279.0 ft. Grade: 0 Condition:

Access Point Manhole

Remarks: 2-23P



Pipe Segme	ent Refere	Ci	ty	Street	Mat	erial	Location C	Sewer Use
2-23P	_2-23Q	James	stown	Hamilton Ave	Asbestos	s Cement	Light High	Sanitary
Upstre	am MH	Total L	ength	Year Laid	Sha	ape	Locatio	n Details
2-2	23P	29	8		Circular			
DS M	anhole	Length surveyed		Year Renewed	Height	Width	Pipe Joint	
2-2	2-23Q		98		14	14	10	
SPR	SPR 58		N/A	PO Number		Customer		
SPRI	CDDI 1		N/A			То	wn of Jamesto	own
SPRI	ı	MPRI	IN/A	Work Order			Purpose	
QSR	1J00	QMR	N/A			Infiltrat	ion/Inflow Inve	estigat
Ol	PR	Surveyed By		Direction	Da	ate	Medi	a label
5	8	J_Perry		Downstream	20120409			
OF	PRI	Certificate Number		Pre-Cleaning	Time		Weather	
	1	U-510-	10733	Jetting	12	:47	Dry	
			Date Cleaned		End	Time	Additio	nal Info
			0409		12	:47		





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Pipe Segment Refere	City	Street	Mat	Material		Sewer Use		
2-23P_2-23Q	Jamestown	Hamilton Ave	Asbestos Cement		Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details		
2-23P	298		Circ	ular				
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint			
2-23Q	298		14 14		10			



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-23P



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 7.0 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect Wanders



Distance: 298.0 ft. Grade: 1

Condition: Surface Roughness Increased Chemical

Remarks: Defect Wanders

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Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
2-23P_2-23Q	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-23P	298		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height Width		Pipe Joint	
2-23Q	298		14 14		10	」 丿



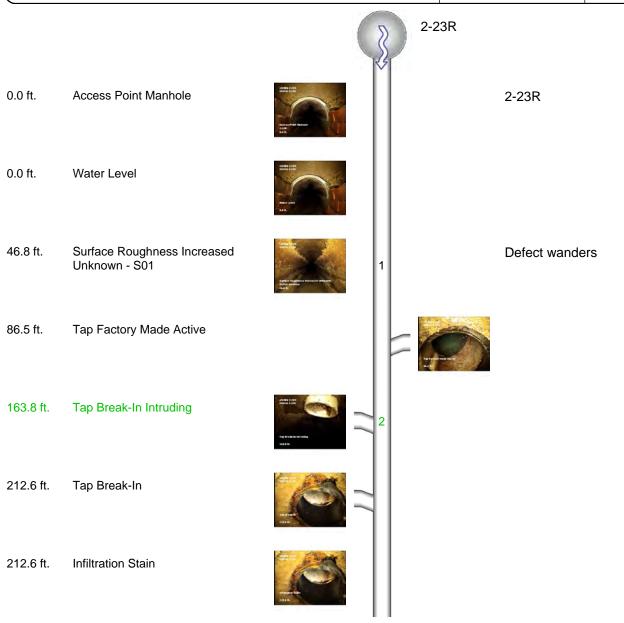
Distance: 298.0 ft. Grade: 0

Condition: Access Point Manhole

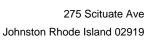
Remarks: 2-23Q



Pipe Segm	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use
2-23Q	_2-23-R	Jame	stown	Hamilton Ave	Asbestos	Cement	Light High	Sanitary
Upstre	eam MH	Total I	Length	Year Laid	Sha	ape	Location	Details
2-2	23R	30	03		Circular			
DS M	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint	
2-2	2-23S		03		12	12	10	
SPR	SPR 51		7	PO Number			Customer	
CDDI	SPRI 1		3.5	1		То	wn of Jamesto	wn
SFRI	ı	MPRI	3.5	Work Order			Purpose	
QSR	1100	QMR	5121			Infiltrat	ion/Inflow Inve	stigat
0	PR	Surveyed By		Direction	Da	ate	Media	label
5	58	J_P	erry	Downstream	20120409			
O	PRI	Certificate Number		Pre-Cleaning	Time		Weather	
1	1.1	U-510	-10733	Jetting	11:	:07	Dry	
		Date Cleaned		•	End	Time	Additional Info	
		2012	20409		11:	28		_



401-943-5302

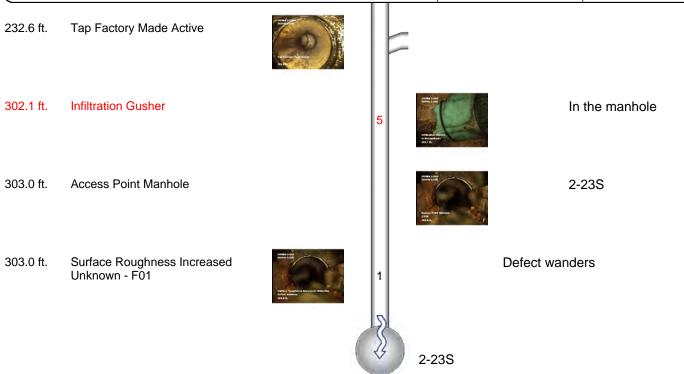




Defect Listing Plot with Images

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
2-23Q_2-23-R	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-23R	303		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-23S	303		12	12	10	

SPR	51	MPR	7	PO Number			Customer	
SPRI	4	MPRI	2.5	-		To	wn of Jamesto	wn
SPRI	1	MPRI	3.5	Work Order			Purpose	
QSR	1100	QMR	5121			Infiltrat	ion/Inflow Inve	estigat
(OPR	Surve	yed By	Direction	Da	ate	Media	a label
	58	J_F	Perry	Downstream	2012	0409		
C	PRI	Certificat	e Number	Pre-Cleaning	Tir	ne	Weather	
	1.1	U-510	-10733	Jetting	11:	:07	Dry	
		Date 0	Cleaned		End	Time	Additio	nal Info
		2012	20409		11:	28		





401-943-5302

Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
2-23Q_2-23-R	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-23R	303		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-23S	303		12	12	10	



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-23R



Distance: 0.0 ft. Grade: (

Condition: Water Level

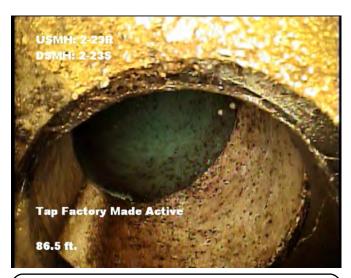
Remarks: N/A



Distance: 46.8 ft. Grade: 1

Condition: Surface Roughness Increased Unknown

Remarks: Defect wanders



Distance: 86.5 ft. Grade: 0

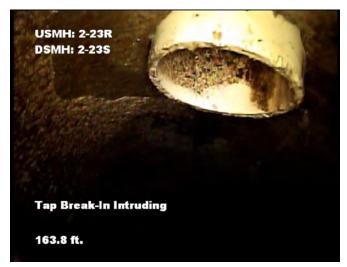
Condition: Tap Factory Made Active

Remarks: N/A



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-23Q_2-23-R	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
Г	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-23R	303		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-23S	303		12	12	10	ر ا



Distance: 163.8 ft. Grade: 2

Condition: Tap Break-In Intruding

Remarks: N/A



Distance: 212.6 ft. Grade: (

Condition: Tap Break-In

Remarks: N/A



Distance: 212.6 ft. Grade: 0

Condition: Infiltration Stain

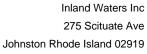
Remarks: N/A



Distance: 232.6 ft. Grade: 0

Condition: Tap Factory Made Active

Remarks: N/A





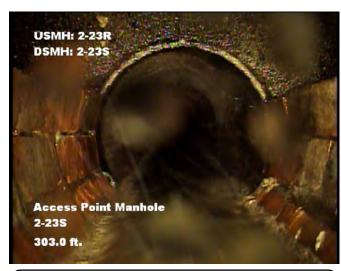
401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
2-23Q_2-23-R	Jamestown	Hamilton Ave	Asbestos	s Cement	Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-23R	303		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-23S	303		12	12	10	ر ا



Distance: 302.1 ft. Grade: 5

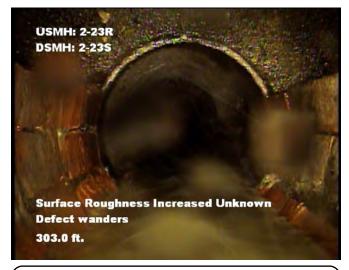
Condition: Infiltration Gusher Remarks: In the manhole



Distance: 303.0 ft. Grade: 0

Condition: Access Point Manhole

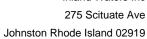
Remarks: 2-23S



Distance: 303.0 ft. Grade:

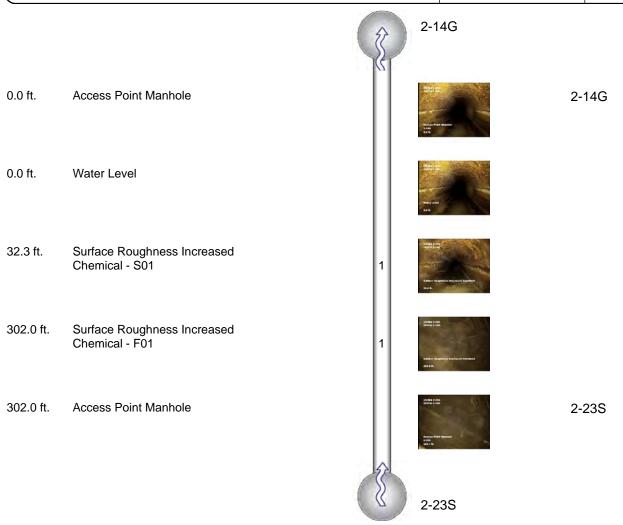
Condition: Surface Roughness Increased Unknown

Remarks: Defect wanders





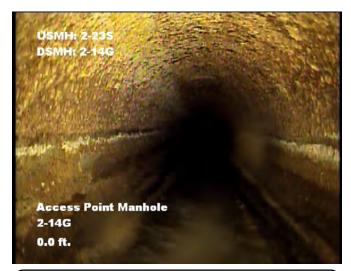
Pipe Segme	ent Refere	Ci	ity	Street	Mat	erial	Location C	Sewer Use
2-23S_	_2-14G	James	stown	Hamilton Ave	Asbestos	s Cement	Light High	Sanitary
Upstrea	am MH	Total Length		Year Laid	Sha	ape		
2-2	:3S	30	02		Circ	ular		
DS Ma	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
2-1	4G	30	02		12	12	10	
SPR	54	MPR	N/A	PO Number			Customer	,
SPRI	1	MPRI	N/A			Town of Jamesto		wn
01 101	'	IVII IXI	IN/A	Work Order		Purpose		
QSR	1100	QMR	N/A			Infiltra	tion/Inflow Inve	stigat
OF	PR	Survey	yed By	Direction	Da	ate	Media	alabel
5	4	J_P	erry	Upstream	2012	0409		
OF	PRI	Certificate	e Number	Pre-Cleaning	Tir	me	Weather	
1	1	U-510-	-10733	Jetting	12	:42	Dry	
		Date C	leaned	•	End	Time	Additio	nal Info
		2012	0409		12	:42		





401-943-5302

1	Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-23S_2-14G	Jamestown	Hamilton Ave	Asbestos Cement		Light High	Sanitary
ſ	Upstream MH	Total Length	Year Laid	Shape		Location	Details
	2-23S	302		Circ	ular		
Γ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-14G	302		12	12	10	ر ا



0.0 ft. Distance: Grade:

Condition: Access Point Manhole

Remarks: 2-14G



0.0 ft. Distance: Grade: 0

Condition: Water Level

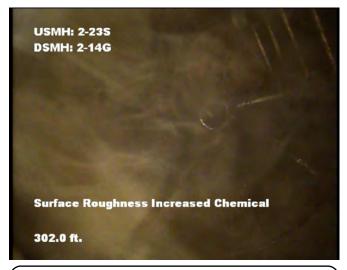
Remarks: N/A



Distance: Grade:

Condition: Surface Roughness Increased Chemical

Remarks: N/A



Distance: 302.0 ft. Grade:

Condition: Surface Roughness Increased Chemical

Remarks: N/A

Inland Waters Inc 275 Scituate Ave Johnston Rhode Island 02919



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Pipe Segment Refere	City	Street	Mate	erial	Location C	Sewer Use
2-23S_2-14G	Jamestown	Hamilton Ave	Asbestos	Cement	Light High	Sanitary
Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
2-23S	302		Circular			
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-14G	302		12	12	10	J



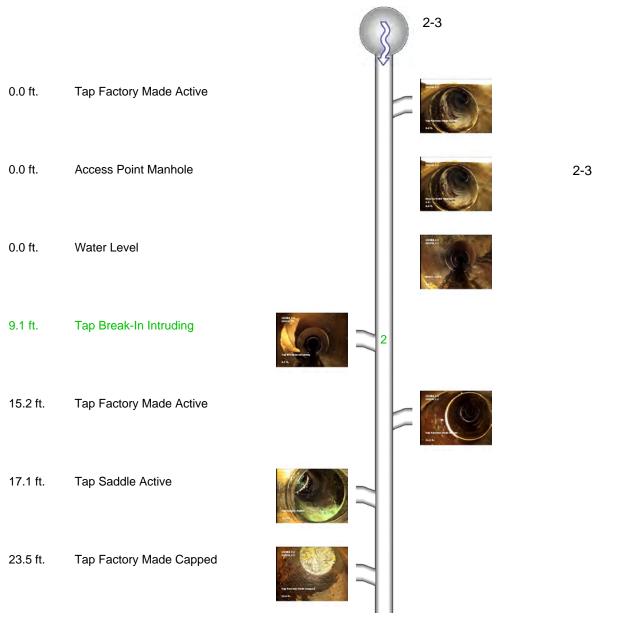
Distance: 302.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-23S



Pipe Segm	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use
2-3	_2-2	Jame	stown	Narragansett Ave	Vitrified	Clay Pipe	Light High	Sanitary
Upstre	am MH	Total I	Length	Year Laid	Sh	ape	Locatio	n Details
2	-3	24	48		Circ	cular		
DS M	anhole	Length s	surveyed	Year Renewed	Height	Width		
2	-2	24	48		12	12	<u> </u>	
SPR	12	MPR	17	PO Number			Customer	
SPRI	2.4	MPRI	2.1	1		То	wn Of Jamesto	own
SFRI	2.4	IVIFKI	2.1	Work Order			Purpose	
QSR	3321	QMR	3127			Infiltra	tion/Inflow Inve	estigat
0	PR	Surve	yed By	Direction	Da	ate	Medi	a label
2	29	J_P	erry	Downstream	2012	20410		
OI	PRI	Certificate	e Number	Pre-Cleaning	Tir	me	Weather	
2	.2	U-510	-10733	Jetting	07	:35	Dry	
		Date C	leaned		End	Time	Additio	nal Info
		2012	0410		08	:05		





Pipe Segm	ent Refere	C	ity	Street	Mate	erial	Location C	Sewer Use
2-3	_2-2	Jame	stown	Narragansett Ave	Vitrified 0	Clay Pipe	Light High	Sanitary
Upstre	eam MH	Total	Length	Year Laid	Sha	ape	Location	Details
2	2-3	2.	48		Circ	ular		
DS M	lanhole	Length :	surveyed	Year Renewed	Height	Width	12 4	
2	2-2	2	48		12	12		
SPR	12	MPR	17	PO Number			Customer	
SPRI	2.4	MPRI	2.1			Town Of Jamestown		wn
01 101	2.4	IVII IXI	2.1	Work Order		Purpose		
QSR	3321	QMR	3127			Infiltra	ation/Inflow Inve	stigat
0	PR	Surve	yed By	Direction	Da	ite	Media	label
2	29	J_P	erry	Downstream	2012	0410		
0	PRI	Certificat	e Number	Pre-Cleaning	Tin	ne	Weather	
2	2.2	U-510	-10733	Jetting	07:	35	Dry	
		Date C	Cleaned		End ⁻	Time	Additio	nal Info
		2013	20410		08:	05		





Pipe Se	gment Refere	Ci	ty	S	treet	Mat	erial	Location C	Sewer Use
	2-3_2-2 Jam		stown	Narraga	nsett Ave	Vitrified	Clay Pipe	Light High	Sanitary
		Total L	ength		ar Laid	Sh	ape cular	Location	
DS	S Manhole	Length s		Year F	Renewed	Height	Width	Pipe Joint	
	2-2	24				12	12	4	
SPR	12	MPR	17		PO Number	•		Customer	
SPRI	2.4	MPRI	2.1	-			To	wn Of Jamesto	wn
					Work Order			Purpose	
QSR	3321	QMR	3127				Infiltra	tion/Inflow Inve	
	OPR	Survey			ection		ate	Media	alabel
	29	J_P			stream		20410		
	OPRI	Certificate			Cleaning		me	Weather	
	2.2	U-510-		Je	tting		:35	Dry	
		Date C					Time	Additio	nal Info
		2012	0410			08	:05		
121.6 ft.	Tap Factory M		****						
130.1 ft. 131.9 ft.	Tap Factory M Tap Break-In	aue Cappeu							
140.0 ft.	Deposits Attac	hed Grease			2				
142.0 ft.	Tap Break-In [Defective			3				
146.9 ft.	Tap Saddle Ad	ctive	(C						
177.1 ft.	Tap Factory M	ade Defective			2	F	Plugged with	debris	
193.6 ft.	Fracture Longi	tudinal	Shares and the state of the sta	S.	3				

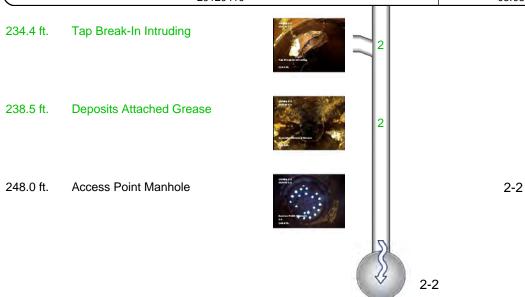


Pipe Segm	ent Refere	С	ity	Street	Mate	erial	Location C	Sewer Use
2-3	_2-2	Jame	stown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
Upstre	eam MH	Total I	Length	Year Laid	Sha	ape	Location	Details
2	2-3	24	48		Circ	ular		
DS M	anhole	Length s	surveyed	Year Renewed	Height	Width	Pipe Joint	
2	2-2	24	48		12	12	4	
SPR	12	MPR	17	PO Number			Customer	
CDDI	0.4	MDDI	0.4			Town Of Jamestown		wn
SPRI	2.4	MPRI	2.1	Work Order			Purpose	
QSR	3321	QMR	3127			Infiltra	ation/Inflow Inve	stigat
0	PR	Surve	yed By	Direction	Da	ite	Media	alabel
2	29	J_P	erry	Downstream	2012	0410		
0	PRI	Certificat	e Number	Pre-Cleaning	Tin	ne	Weather	
2	2.2	U-510	-10733	Jetting	07:	35	Dry	
		Date C	leaned		End ⁻	Time	Additio	nal Info
		2012	0410		08:	05		





Pipe Segment Refere		City		Street	Material		Location C	Sewer Use
2-3_2-2		Jamestown		Narragansett Ave	Vitrified C	Vitrified Clay Pipe		Sanitary
Upstream MH		Total Length		Year Laid	Shape		Location Details	
2-3		248			Circular			
DS Manhole		Length surveyed		Year Renewed	Height	Width	Pipe Joint	
2-2		248			12	12	4	
SPR	12	MPR	17	PO Number		Customer Town Of Jamestown		
CDDI	0.4	MDDI	0.4					
SPRI	PRI 2.4 MPRI 2.1		Work Order		Purpose			
QSR	3321	QMR	3127			Infiltration/Inflow Investigat		
OPR		Surveyed By		Direction	Date		Media label	
29		J_Perry		Downstream	20120410			
OPRI		Certificate Number		Pre-Cleaning	Time		Weather	
2	2.2)-10733	Jetting	07:35		Dry	
Date Cleaned					End Time		Additional Info	
20120410					08:05			





401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	ular		
Г	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-2	248		12	12	4	



Distance: 0.0 ft. Grade: 0 Condition:

Tap Factory Made Active

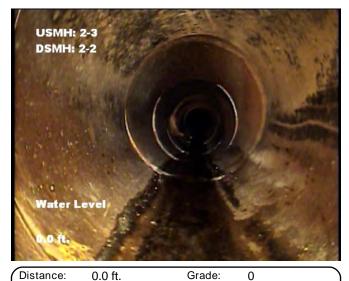
Remarks: N/A



Distance: 0.0 ft. Grade: 0

Access Point Manhole Condition:

Remarks: 2-3



Distance: 0.0 ft. Condition: Water Level

Remarks: N/A



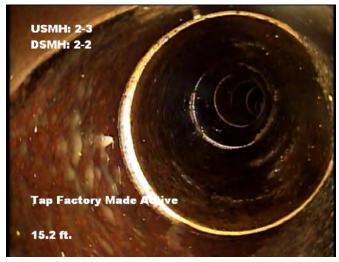
Distance: Grade:

Condition: Tap Break-In Intruding



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified (Vitrified Clay Pipe		Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-2	248		12	12	4	

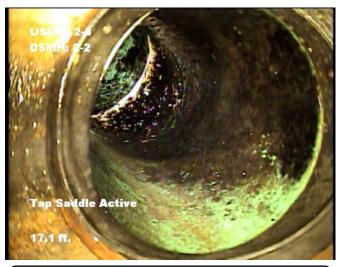


Distance: 15.2 ft. Grade: 0

Tap Factory Made Active

Remarks: N/A

Condition:



Distance: 17.1 ft. Grade: (

Condition: Tap Saddle Active

Remarks: N/A



Distance: 23.5 ft. Grade: 0

Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 26.5 ft. Grade: 3

Condition: Fracture Longitudinal



2-2

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		• •				
Pipe Segment Refere	City Street Material		Location C	Sewer Use		
2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe		Light High	Sanitary
Upstream MH	Total Length	Year Laid	Shape		Location	Details
2-3	248		Circular			
DS Manhole	Length surveyed	Year Renewed	ar Renewed Height Width		Pipe Joint	



248

Distance: 27.2 ft. Grade: 0

Condition: Tap Saddle Active

Remarks: N/A



Distance: 31.6 ft. Grade: (

Condition: Tap Factory Made Capped

12

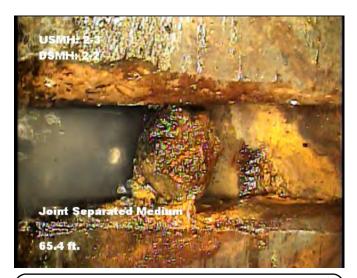
Remarks: N/A



Distance: 35.2 ft. Grade: 0

Condition: Tap Break-In

Remarks: N/A



Distance: 65.4 ft. Grade: 1

Condition: Joint Separated Medium



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	ular		
Г	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-2	248		12	12	4	



76.7 ft. Distance: Grade: Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 80.7 ft. Grade:

Condition: Tap Factory Made Active

Remarks: With grease



Distance: 97.4 ft. Grade: 0

Condition: Tap Break-In

Remarks: N/A



Distance: 121.6 ft. Grade: Condition:

Tap Factory Made Capped



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified (Vitrified Clay Pipe		Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-2	248		12	12	4	



Distance: 130.1 ft. Grade: 0
Condition: Tap Factory Made Capped

Remarks: N/A



Distance: 131.9 ft. Grade: 0

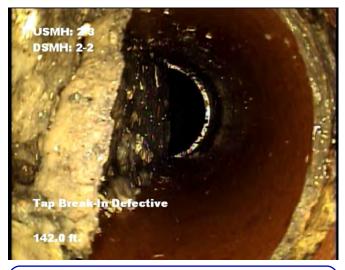
Condition: Tap Break-In

Remarks: N/A



Distance: 140.0 ft. Grade: 2
Condition: Deposits Attached Grease

Remarks: N/A



Distance: 142.0 ft. Grade: 3

Condition: Tap Break-In Defective



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	ular		
Г	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-2	248		12	12	4	



Distance: 146.9 ft. Grade:

Condition: Tap Saddle Active

Remarks: N/A



177.1 ft. Grade: Distance: Condition: Tap Factory Made Defective

Remarks: Plugged with debris



Distance: 193.6 ft. Grade: 3

Fracture Longitudinal Remarks: N/A

Condition:



Distance: 194.8 ft. Grade:

Condition: Tap Break-In Intruding



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	ular		
Г	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-2	248		12	12	4	



Distance: 195.1 ft. Grade: 2

Condition: Fracture Circumferential

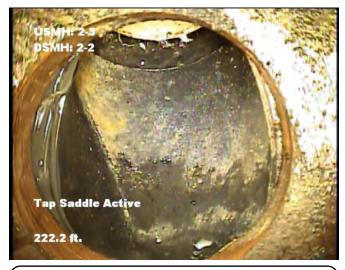
Remarks: N/A



Distance: 195.9 ft. Grade: 3

Condition: Broken Pipe

Remarks: N/A



Distance: 222.2 ft. Grade:

Condition: Tap Saddle Active

Remarks: N/A



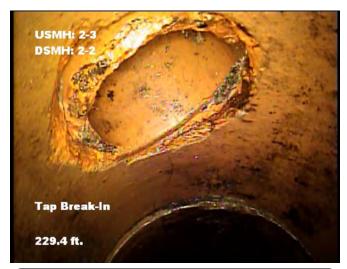
Distance: 225.9 ft. Grade: Condition:

Tap Factory Made Capped



401-943-5302

(Pipe Segment Refere	City	Street	Mat	Material		Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified Clay Pipe		Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	ular		
Г	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-2	248		12	12	4	



Distance: 229,4 ft. Grade: 0

Condition: Tap Break-In

Remarks: N/A



Distance: 230.5 ft. Grade: 2
Condition: Deposits Attached Grease

Remarks: N/A



Distance: 234.4 ft. Grade: (
Condition: Tap Factory Made Active

Remarks: N/A



Distance: 234.4 ft. Grade: 2

Condition: Tap Break-In Intruding



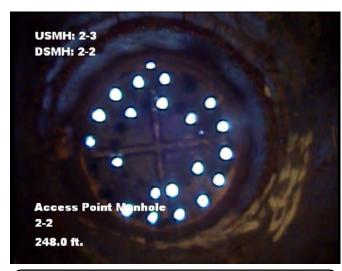
401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-3_2-2	Jamestown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-3	248		Circ	Circular		
Γ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-2	248		12	12	4	/



Distance: 238.5 ft. Grade: 2
Condition: Deposits Attached Grease

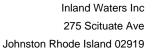
Remarks: N/A



Distance: 248.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-2

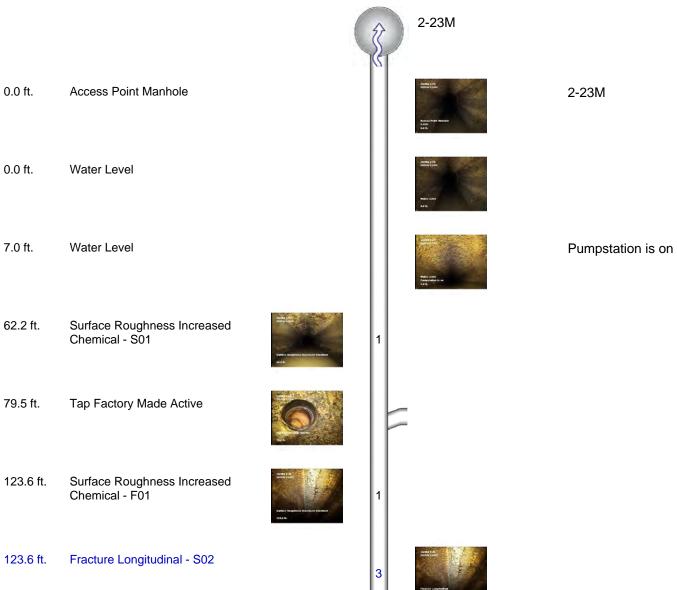


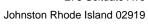


Defect Listing Plot with Images

401-943-5302

Pipe Segm	ent Refere	Ci	ity	Street	Mate	erial	Location C	Sewer Use
2-32_	2-23M	James	stown	Hamilton Ave	Asbestos	Cement	Light High	Sanitary
Upstre	am MH	Total Length		Year Laid	Sha	ape	Location Details	
2-	-32	240			Circular			
DS M	DS Manhole 2-23M		surveyed	Year Renewed	Height	Width	Pipe Joint	
2-2			10		14	14	10	
SPR 37		MPR	N/A	PO Number			Customer	`
SPRI	1.1	MPRI	N/A	_		To	wn of Jamesto	wn
SFIXI	1.1	IVIFIXI	IN/A	Work Order			Purpose	
QSR	311E	QMR	N/A			Infiltra	tion/Inflow Inve	estigat
0	PR	Survey	ed By	Direction	Da	ate	Media label	
3	37	J_P	erry	Upstream	20120409			
O	PRI	Certificate	e Number	Pre-Cleaning	Tir	ne	Weather	
1	.1	U-510-	-10733	Jetting	09:	24	Dry	
		Date C	leaned		End	Time	Additio	nal Info
			0409		09:	41	No Access	s to pipe i







Defect Listing Plot with Images Street

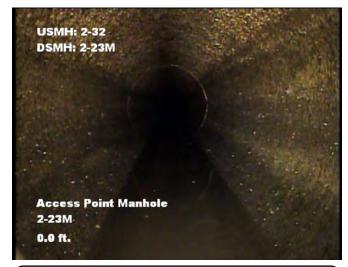
401-943-5302

	. 5 .	-						1	
-	gment Refere		ity	Stree			terial	Location C	Sewer Use
	32_2-23M		stown	Hamilton			s Cement	Light High	Sanitary
Up	stream MH 2-32		Length 40	Year L	aid		ape cular	Location	n Details
D.S	S Manhole		surveyed	Year Ren	newed	Height	Width	Pipe Joint	
	2-23M		40	real item	icwcu	14	14	10	
SPR	37	MPR			PO Number			Customer	
			N/A				l т	own of Jamesto	wn
SPRI	1.1	MPRI	N/A		Work Order			Purpose	
QSR	311E	QMR	N/A				Infiltra	ation/Inflow Inve	stigat
	OPR	Surve	yed By	Directi	on	D	ate	Media	alabel
	37	J_P	Perry	Upstre	eam	2012	20409		
	OPRI		e Number	Pre-Clea			me	Weather	
	1.1		-10733	Jettir	ng		:24	Dry	
			Cleaned				Time		nal Info
		2012	20409			09	:41	No Access	to pipe i
129.9 ft. 129.9 ft. 144.5 ft.	Surface Rough Unknown - So	nness Increas 3	sed		1			Defect wander Pumpstation is	
240.0 ft. 240.0 ft.	Access Point M		ed					2-23M Defect wander	s
240.0 It.	Unknown - F0:	_			2	-32	L	Serect wander	3



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-32_2-23M	Jamestown	Hamilton Ave	Asbestos	Asbestos Cement		Sanitary
Ī	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-32	240		Circ	Circular		
Ī	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-23M	240		14	14	10	ر ا



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-23M



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 7.0 ft. Grade: 0

Condition: Water Level
Remarks: Pumpstation is on



Distance: 62.2 ft. Grade: 1

Condition: Surface Roughness Increased Chemical



401-943-5302

Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
2-32_2-23M	Jamestown	Hamilton Ave	Asbestos	s Cement	Light High	Sanitary
Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
2-32	240		Circ	ular		
DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
2-23M	240		14 14		10	



Distance: 79.5 ft. Grade: 0

Condition: Tap Factory Made Active

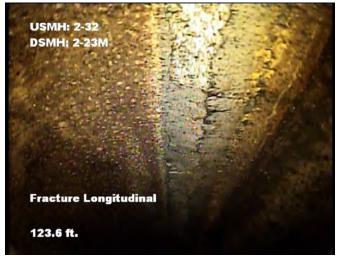
Remarks: N/A



Distance: 123.6 ft. Grade:

Condition: Surface Roughness Increased Chemical

Remarks: N/A



Distance: 123.6 ft. Grade: 3

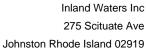
Condition: Fracture Longitudinal

Remarks: N/A



Distance: 129.9 ft. Grade: 3

Condition: Fracture Longitudinal





401-943-5302

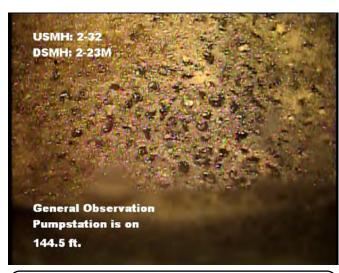
(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
1	2-32_2-23M	Jamestown	Hamilton Ave	Asbestos	Asbestos Cement		Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-32	240		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-23M	240		14	14	10	



Distance: 129.9 ft. Grade:

Condition: Surface Roughness Increased Unknown

Remarks: Defect wanders



Distance: 144.5 ft. Grade: 0

Condition: General Observation Remarks: Pumpstation is on



Distance: 240.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-23M

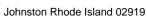


Distance: 240.0 ft. Grade: 1

Condition: Surface Roughness Increased Unknown

Remarks: Defect wanders

Inland Waters Inc 275 Scituate Ave

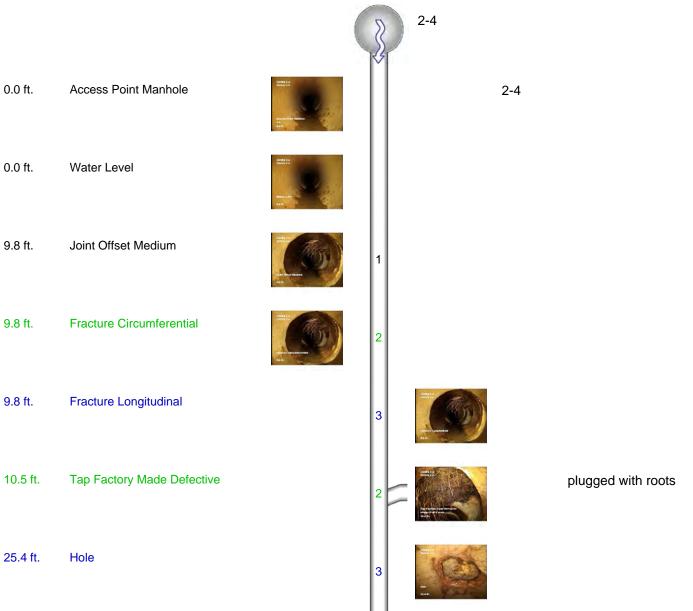




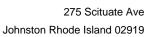
Defect Listing Plot with Images

401-943-5302

Pipe Segm	ent Refere	C	ity	Street	Mate	erial	Location C	Sewer Use
2-4	_2-3	Jame	stown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
Upstre	eam MH	Total Length		Year Laid	Shape		Location	Details
2	2-4	3	16		Circular			
DS M	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint	
2	2-3	(33		8	8	3	
SPR	SPR 19		13	PO Number			Customer	
SPRI	2.7	MPRI	4.0	-		To	wn Of Jamesto	wn
SPRI	2.1	IVIPRI	4.3	Work Order			Purpose	
QSR	4232	QMR	2611			Infiltra	ation/Inflow Investigat	
0	PR	Surve	yed By	Direction	Da	ite	Media	label
;	32	J_P	Perry	Downstream	2012	0410		
0	PRI	Certificat	e Number	Pre-Cleaning	Pre-Cleaning Time		Weather	
3	3.2		-10733	Jetting (51	Dry	
	Date Cleaned		Cleaned		End ⁻	Time	Addition	nal Info
	20120410				07:	18	Line was cl	eaned wi



401-943-5302

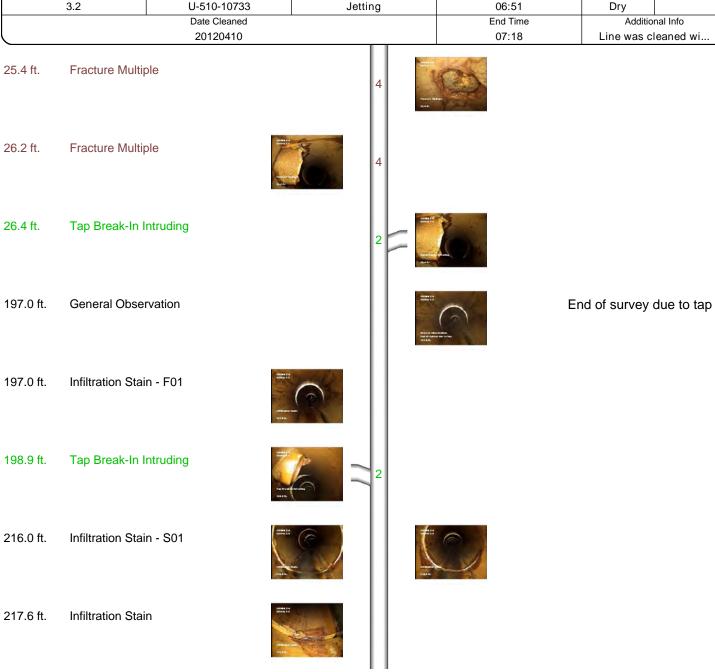




Defect Listing Plot with Images

2-4 2-3	3	1		Street Material		onai	Location C	Sewer Use
2-4_2-3		2-4_2-3 Jamestown		Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
Upstream N	МН	Total L	ength	Year Laid	Shape		Location	Details
2-4		31	6		Circular			
DS Manho	ole	Length surveyed		Year Renewed	Height	Width	Pipe Joint	
2-3		6	3		8	8	3	<u> </u>
SPR 19		MPR	13	PO Number			Customer	
SPRI	2.7	MPRI	4.3	Work Order		To	own Of Jamesto	wn

- (SPR	19	MPR	MPRI 4.3 Work Order		Customer			
ł	CDDI	0.7	MDDI	4.0	-		Tov	wn Of Jamesto	wn
	SPRI	2.7	MPRI	4.3	Work Order	Work Order		Purpose	
-	QSR	4232 QMR 2611			Infiltrat	filtration/Inflow Investigat			
Ī	OPR 32		Surve	eyed By	Direction	Date		Media	alabel
-			J_F	Perry	Downstream 2012		0410		
Ī	C)PRI	Certificat	te Number	Pre-Cleaning	Time		Weather	
-	;	3.2 U-510-10733		Jetting	06:	:51	Dry		
Ī			Date (Cleaned		End	Time	Additio	nal Info
(2012	20410		07:	:18	Line was c	leaned wi
			_					_	





Defect Listing Plot with Images

401-943-5302

Dinc O-	ant Defer-			t Listin					o viol		401-943-530
	nent Refere	C	-	Norre	Street				erial	Location C	Sewer Us
	1_2-3	James			aganse Year Lai				Clay Pipe ape	Light High	Sanitary
	eam MH 2-4		∟ength I 6		rear Lai	iu			ape :ular	Location	n Details
	1anhole		surveyed	VΔ	ar Rene	wed		Height	Width	Pipe Joint	
	2-3		3	16	I (OIIC			8	8	3	
						PO Num	her			Customer	
SPR	19	MPR	13		'	O I Vali	ibei		T.	own Of Jamesto	wn
SPRI	2.7	MPRI	4.3			Work Or	der			Purpose	
QSR	4232	QMR	2611						Infiltra	ation/Inflow Inve	stigat
0	PR	Surve	ed By		Direction	n		Da	ate		a label
;	32	J_P	erry	Do	wnstre	eam		2012	0410		
	PRI	Certificate	e Number	Pr	re-Clean	ing		Tiı	me	Weather	
3	3.2		-10733		Jetting	9		06		Dry	
			leaned						Time		nal Info
		2012	0410					07	:18	Line was c	leaned wi
22.5 ft.	Crack Longitud Tap Break-In In	ntruding			2	2					
28.8 ft.	Alignment Left				2	2)			
11.8 ft.	Alignment Righ	nt				2		<u>(0</u>			
16.0 ft.	Alignment Left					1	District S. A. State of Lands St. State of Lands St.	\mathcal{O}			
9.6 ft.	Tap Factory M	ade Capped									

Inland Waters Inc 275 Scituate Ave

Johnston Rhode Island 02919



Defect Listing Plot with Images

401-943-5302

Pipe Segm	ent Refere	С	ity	Street	Mat	erial	Location C	Sewer Use
2-4	_2-3	Jame	stown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
Upstre	eam MH	Total	Length	Year Laid	Sha	ape	Location Details	
2	2-4	3	16		Circular			
DS M	DS Manhole		surveyed	Year Renewed	Height	Width	Pipe Joint	
2	2-3	6	33		8	8	3	
SPR	SPR 19		13	PO Number			Customer	
SPRI	2.7	MPRI	4.3	1		To		own
SFRI	2.1	IVIFKI	4.3	Work Order			Purpose	
QSR	4232	QMR	2611			Infiltra	tion/Inflow Inve	stigat
0	PR	Surve	yed By	Direction	Da	ate	Media labe	
3	32	J_P	erry	Downstream	2012	0410		
OI	PRI	Certificate Number Pre-Cleaning Time		Weather				
3	3.2	U-510	-10733	Jetting	06:	:51	Dry	
		Date C	Cleaned	•	End	Time	Additio	nal Info
		2012	20410		07:	:18	Line was c	leaned wi

297.9 ft. Shape or Size Change



12 to 8

316.0 ft. Access Point Manhole



2-3

2-3



401-943-5302

	Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-4_2-3	Jamestown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	2-4	316		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-3	63		8	8	3	



Distance: 0.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-4



Distance: 0.0 ft. Grade: 0

Condition: Water Level

Remarks: N/A



Distance: 9.8 ft. Grade: 1

Condition: Joint Offset Medium

Remarks: N/A



Distance: 9.8 ft. Grade: 2

Condition: Fracture Circumferential



401-943-5302

	Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
	2-4_2-3	Jamestown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	ape	Location	Details
	2-4	316		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-3	63		8	8	3	



Distance: 9.8 ft. Grade: 3

Condition: Fracture Longitudinal

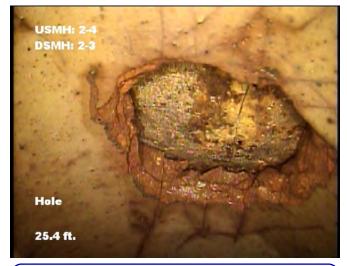
Remarks: N/A



Distance: 10.5 ft. Grade: 2

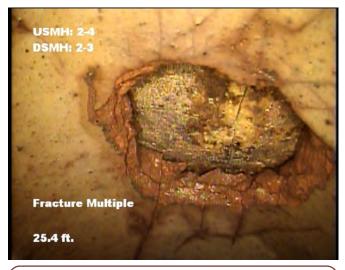
Condition: Tap Factory Made Defective

Remarks: plugged with roots



Distance: 25.4 ft. Grade: 3

Condition: Hole Remarks: N/A



Distance: 25.4 ft. Grade: 4

Condition: Fracture Multiple



401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
1	2-4_2-3	Jamestown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-4	316		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-3	63		8	8	3	



Distance: 26.2 ft. Grade: 4

Condition: Fracture Multiple

Remarks: N/A



Distance: 26.4 ft. Grade: 2

Condition: Tap Break-In Intruding

Remarks: N/A



Distance: 197.0 ft. Grade: 0

Condition: General Observation
Remarks: End of survey due to tap



Distance: 197.0 ft. Grade: 0

Condition: Infiltration Stain



401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
1	2-4_2-3	Jamestown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-4	316		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-3	63		8	8	3	



Distance: 198.9 ft. Grade: 2

Condition: Tap Break-In Intruding

Remarks: N/A



Distance: 216.0 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 216.0 ft. Grade: 0

Condition: Infiltration Stain

Remarks: N/A



Distance: 217.6 ft. Grade: 0

Condition: Infiltration Stain



401-943-5302

(Pipe Segment Refere	City	Street	Mat	erial	Location C	Sewer Use
1	2-4_2-3	Jamestown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Sha	Shape		Details
	2-4	316		Circ	ular		
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
l	2-3	63		8	8	3	



Distance: 221.1 ft. Grade: Condition:

Tap Factory Made Capped

Remarks: N/A



221.9 ft. Grade: Distance: 2

Condition: Crack Longitudinal

Remarks: N/A



Distance: 222.5 ft. Grade: Condition:

Tap Break-In Intruding

Remarks: N/A



Distance: 0 Condition: Tap Factory Made Capped



401-943-5302

1	Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-4_2-3	Jamestown	Narragansett Ave	Vitrified (Vitrified Clay Pipe		Sanitary
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	2-4	316		Circular			
	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
(2-3	63		8	8	3	ر ا



Distance: 228.8 ft. Grade: 2

Condition: Alignment Left

Remarks: N/A



Distance: 241.8 ft. Grade: 2

Condition: Alignment Right

Remarks: N/A



Distance: 246.0 ft. Grade: 1

Condition: Alignment Left

Remarks: N/A



Distance: 269.6 ft. Grade: 0

Condition: Tap Factory Made Capped



401-943-5302

(Pipe Segment Refere	City	Street	Material		Location C	Sewer Use
	2-4_2-3	Jamestown	Narragansett Ave	Vitrified (Clay Pipe	Light High	Sanitary
	Upstream MH	Total Length	Year Laid	Shape		Location Details	
	2-4	316		Circular			
Γ	DS Manhole	Length surveyed	Year Renewed	Height	Width	Pipe Joint	
	2-3	63		8	8	3	/



Distance: 297.9 ft. Grade: 0

Condition: Shape or Size Change

Remarks: 12 to 8



Distance: 316.0 ft. Grade: 0

Condition: Access Point Manhole

Remarks: 2-3